

# MASTER<sup>®</sup> APPLIANCE

Designers and Manufacturers of Heat Tools for Industry



Master Heat Gun<sup>®</sup> Varitemp<sup>®</sup> Proheat<sup>®</sup> Variair<sup>®</sup> Masterflow<sup>®</sup> Master-Mite<sup>®</sup> Ecoheat<sup>®</sup>  
Ultratorch<sup>®</sup> Ultratip<sup>®</sup> Ultratane<sup>®</sup> Econolron<sup>®</sup> PortaPro<sup>®</sup> Multiseal<sup>™</sup> Solderseal<sup>™</sup> Proseal<sup>™</sup>

**1958 - 2008**  
**50 Years of Quality**

[www.masterappliance.com](http://www.masterappliance.com)

# Master Appliance®

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The original heavy-duty heat guns with rugged cast aluminum housing and powerful universal motor

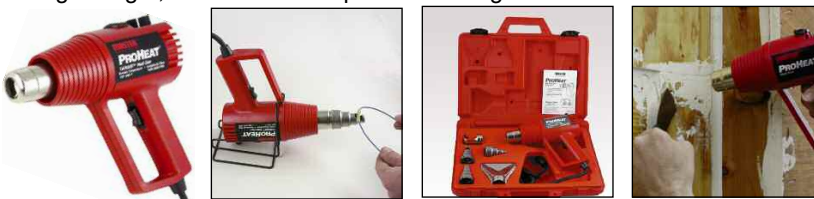


Rotating Swivel Stand

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Lightweight, durable Lexan® plastic housing with built-in stand for hands-free use



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Economical two temperature heat gun with resettable thermostat for overheating protection



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Quiet motor with 3.8 CFM airflow provides a balance of heat and gentle airflow at the work station



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Cordless flexibility, reaches operating temperature in less than 4 minutes, runs for over 2 hours

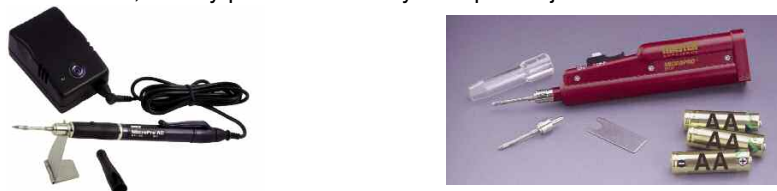
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MP-100 Personal electric soldering iron with stand by mode  
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### ■ Heat-Seal Electrical Connectors, Shrink Tubing and Crimpers

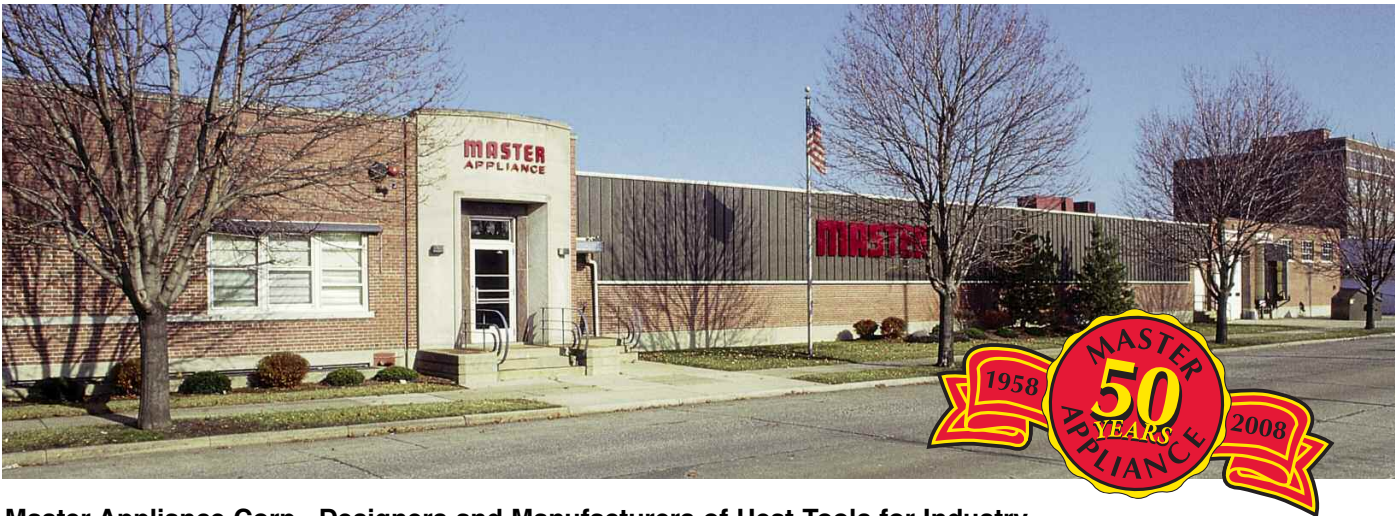
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**Master Appliance Corp., Designers and Manufacturers of Heat Tools for Industry**

Located near the western shores of Lake Michigan in Racine, Wisconsin, Master invented and introduced the first industrial quality heat gun to the worldwide marketplace in 1958. In 1985, we introduced North America's first butane powered, cordless soldering iron, torch and flameless heat tool, ideal for field use. These professional quality heat tools, and others developed since, have enjoyed worldwide market success. Today our products are used in thousands of facilities, workshops and in the field for drying, welding, shrinking, soldering, desoldering, gluing and for many other common and unique applications, where heat is the need.



Master is continually developing new heat tool products, with enhanced capabilities, making it easier to work with new materials and processes used throughout industry. With 50 years of experience, the Master name stands for extraordinary expertise in heat technology, quality products and unsurpassed service. Whether you're considering a new application, material or process or simply looking to replace an old, tired heat tool, call us for fast professional service.

**Local Availability, Sales, Parts & Service**

Master heat tools are sold worldwide through a network of Authorized Stocking Distributors. Trained Sales and Customer Service Representatives, located at our headquarters and throughout the world, insure fast personal service. Contact us for your nearest stocking distributor or sales representative. **Visit our website for up-to-date information on products, accessories, parts, warranty and repair service.**



**Master Appliance Corp.**

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 E-mail: [sales@masterappliance.com](mailto:sales@masterappliance.com)  
 Website: [www.masterappliance.com](http://www.masterappliance.com)

**Engineering, Design, Research and Development**

Master's goal is to provide the most advanced and rugged heat tools in the market, and the best product for your specific application. Our Heat Technology Specialists, using state-of-the art systems, tools and test & measurement equipment, are constantly striving for better heat tool designs that are ergonomic, compact and lightweight or feature heavy-duty, stable bases for mounting or bench-top use.



**Manufacturing**

Master Heat™ Tool products are made with superior, quality materials and the finest craftsmanship. Great designs and expert assembly, in a lean, efficient manufacturing setting, assure our customers maximum product quality, performance and value.

# Master Varitemp® VTS Heat Gun

## Deluxe Varitemp Heat Gun with versatile pivoting stand

- Stable, deluxe heavy-duty, pivoting metal stand with non-slip rubber feet
- Exclusive adjustable spring loaded slide handle with ergonomic grip
- Easy selection of multiple pivoting angles for hands-free or hands-on use, to provide the best balance and aim
- High temperature and power ratings: Ambient up to 1000°F/540°C at 1740 watts
- Variable temperature control provides easy dial-in temperatures
- Powerful high speed universal motor
- High air flow rating: 23 CFM at 3000 FPM gets the job done fast
- Sturdy die cast aluminum housing is rugged and lightweight
- Double protected heating element housing
- Easily replaceable, reinforced, mica-insulated ceramic heating element
- Externally accessible carbon brush holders for quick replacement
- Three position "OFF-COLD-HOT" rocker switch
- 6 foot, 3-wire grounded cordset made with flexible, oil and sunlight resistant rubber jacket
- UL Listed. Made in USA
- Use to shrink tubing and packaging, bend plastics, cure adhesives, dry and heat parts, strip paint, defrost frozen pipes, heat sensitive materials, solder/desolder and more



Pivoting handle and slide grip with removable stand

MASTER VARITEMP® VTS HEAT GUN	
MODEL NO.	DESCRIPTION
VTS-750	Amb.-1000°F Amb.-540°C 23 CFM 120V 60 Hz 14.5A 1740W
VTS-752	Amb.-750°F Amb.-400°C 23 CFM 220V 50 Hz 7A 1680W
HAS-043K	Replacement heating element for VTS-750
HAS-014K	Replacement heating element for VTS-752
35257	Replacement brush, spring and cap kit (2 each)

### Optional Accessories

PART NO.	DESCRIPTION
A-160-HG	Shrink attachment for tubing up to 3/4" O.D.
A-170-HG	Shrink attachment for tubing 3/4" to 2" O.D.
35245	Three popular attachments
30202	Solder preform attachment
51309	3/8" pinpoint attachment
51542	Glass protector attachment
51543	2-1/4" spreader attachment
51544	7/8" reducer attachment

Photos of accessories shown on page 7

### Specifications

- Air Volume: 23 CFM ■ Air Velocity: 3000 FPM ■ Motor: Universal
- Nozzle Opening: 1.2" I.D., 1.5" O.D. ■ Cordset: 6 ft., 3-wire grounded ■ Dimensions: 9" L x 6" W x 12" H.
- Tool Net Weight: 5 lbs. ■ Shipping Weight Kit: 8 lbs.



Ergonomic handle with spring loaded slide grip



Reflector Attachment for Heat Shrinking  
Deluxe stand gives more hands-free choices



Replacement Brush, Spring and Cap Kit (2 each)



Perfect for bench-top use in manufacturing and repair

NOTE: Users should independently evaluate the suitability of the product for their application.

# Master & Varitemp® Heat Guns

Professional, heavy-duty, industrial quality, multiple use heat guns

- High temperature and power ratings: up to 1000°F/540°C at 1740 watts
- Varitemp model features variable temperature control which allows user to dial-in a any temperature from ambient to 1000°F/540°C
- High air flow rating: 23 CFM at 3000 FPM gets the job done fast
- Powerful high speed universal motor
- Sturdy die cast aluminum housing is rugged and lightweight
- Double protected heating element housing
- Easily replaceable, reinforced, mica-insulated ceramic heating element
- Externally accessible carbon brush holders for quick replacement
- Three position "OFF-COLD-HOT" rocker switch
- Contoured, well balanced handle
- Non-slip rubber-backed base with 90° rotation
- 6 foot, 3-wire grounded cordset made with flexible, oil and sunlight resistant rubber jacket
- Optional momentary contact safety switch for added safety
- UL Listed. Made in USA
- Use to shrink tubing and packaging, bend plastics, cure adhesives, dry and heat parts, strip paint, defrost frozen pipes, heat sensitive materials, solder/desolder and more



UL  
120V Models

HG Series  
Master Heat  
Gun®

USA  
MADE IN

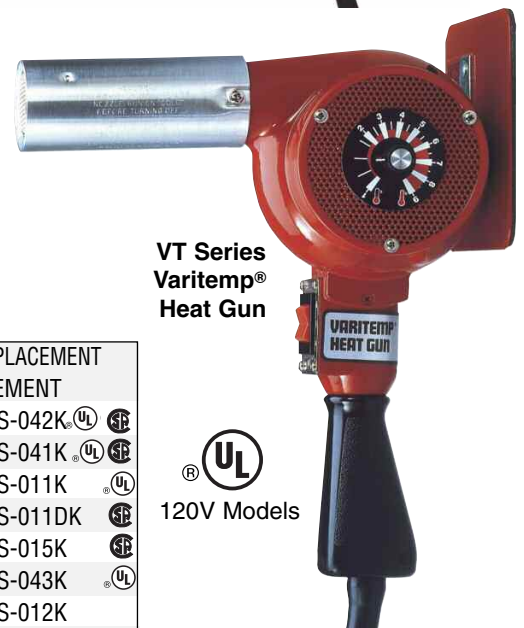
## Momentary Contact Safety Switch:

An option for Master Heat Gun® models. To order add "MC" suffix to model number. Example: HG-501A-MC.

Also, many international volt-ages/cordsets available upon request.

Contact our Sales Department for appropriate model numbers.

See our website for other parts and repair service information



VT Series  
Varitemp®  
Heat Gun

UL  
120V Models

MASTER HEAT GUN®							REPLACEMENT ELEMENT	
MODEL NO.	DESCRIPTION							
HG-201A	200-300°F	93-150°C	23 CFM	120V	60 Hz	5A	600W	HAS-042K
HG-301A	300-500°F	150-260°C	23 CFM	120V	60 Hz	12A	1440W	HAS-041K
HG-501A	500-750°F	260-400°C	23 CFM	120V	60 Hz	14A	1680W	HAS-011K
HG-501A-D	500-750°F	260-400°C	23 CFM	120V	60 Hz	12A	1440W	HAS-011DK
HG-751A-C *	750-1000°F	400-540°C	23 CFM	120V	60 Hz	18A	2160W	HAS-015K
HG-751B	750-1000°F	400-540°C	23 CFM	120V	60 Hz	14.5A	1740W	HAS-043K
HG-202A	200-300°F	93-150°C	23 CFM	220V	50 Hz	3A	600W	HAS-012K
HG-302A	300-500°F	150-260°C	23 CFM	220V	50 Hz	6A	1440W	HAS-013K
HG-502A	500-750°F	260-400°C	23 CFM	220V	50 Hz	7A	1680W	HAS-014K
HG-752A	750-1000°F	400-540°C	23 CFM	220V	50 Hz	9A	1740W	HAS-016K
MASTER VARITEMP® HEAT GUN							REPLACEMENT ELEMENT	
MODEL NO.	DESCRIPTION							
VT-750C	Amb. to 1000°F	Amb. to 540°C	23 CFM	120V	60 Hz	14.5A	1740W	HAS-043K
VT-752C	Amb. to 750°F	Amb. to 400°C	23 CFM	220V	50 Hz	7A	1680W	HAS-014K



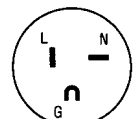
Rotating Swivel Stand

## Specifications

- Air Volume: 23 CFM
- Air Velocity: 3000 FPM
- Motor: Universal
- Nozzle Opening: 1.2" I.D., 1.5" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 9" L x 5.2" W x 10.1" H.
- Tool Net Weight: 3.7 lbs.
- Shipping Weight Tool: 5 lbs.
- Shipping Weight Kit: 10 lbs.



Replacement Heating Element



\*NEMA 5-20 Plug Element

NOTE: Users should independently evaluate the suitability of the product for their application.

# Master & Varitemp® Kits & Accessories

Add versatility to your HG & VT heat gun models



**Master Heat Gun® Kit**

- Quality attachments are made of heavy-duty stainless steel
- Storage/carrying case protects heat gun and provides ample storage space for attachments
- Kits include a Master Heat Gun® or Varitemp® Heat Gun, A-160-HG shrink attachment, 51543 spreader attachment and 51544 reducer attachment packed in a rugged storage/carrying case



**Varitemp® Heat Gun Kit**

MASTER HEAT GUN® KIT									
MODEL NO.	DESCRIPTION								
HG-201AK	200-300°F	93-150°C	23 CFM	120V	60 Hz	5A	600W	UL	CS
HG-301AK	300-500°F	150-260°C	23 CFM	120V	60 Hz	12A	1440W	UL	CS
HG-501AK	500-750°F	260-400°C	23 CFM	120V	60 Hz	14A	1680W	UL	
HG-751BK	750-1000°F	400-540°C	23 CFM	120V	60 Hz	14.5A	1740W	UL	
MASTER VARITEMP® HEAT GUN KIT									
MODEL NO.	DESCRIPTION								
VT-750CK	Amb.-1000°F	Amb.-540°C	23 CFM	120V	60 Hz	14.5A	1740W	UL	

®  120V Models

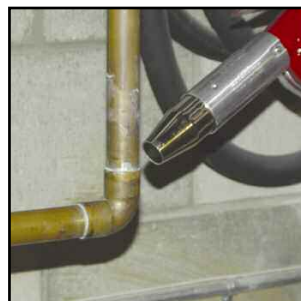
## Optional Accessories

PART NO.	DESCRIPTION
A-160-HG	Shrink attachment for tubing up to 3/4" O.D.
A-170-HG	Shrink attachment for tubing 3/4" to 2" O.D.
35245	Three popular attachments
30202 *	Solder preform attachment
51013	Molded storage carrying case
51309 *	3/8" pinpoint attachment
51542	Glass protector attachment
51543	2-1/4" spreader attachment
51544	7/8" reducer attachment

*NOTE: Users should independently evaluate the suitability of the product for their application.*



Thaw Pipes



Solder/Desolder



**A-160-HG**  
Shrink attachment for tubing up to 3/4"



**51543**  
2-1/4" Spreader attachment



**51544**  
7/8" Reducer attachment



**A-170-HG**  
Shrink attachment for tubing 3/4" to 2" O.D.



**30202 \***  
Solder preform attachment



**51309 \***  
3/8" Pinpoint attachment



**51542**  
Glass protector attachment



**35245**  
Three of our most popular attachments



**51013**  
Molded storage and carrying case for HG & VT Heat Guns only

\* Not for use with HG-751B or HG-752A

# Proheat® Variair® Heat Gun, Kit & Accessories

Rugged variable air flow, variable temperature heat gun

- Compact, light weight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature 130°F to 900°F (54°C to 482°C)
- Variable air flow 6 to 15 CFM
- Patented electronic closed loop temperature control system maintains constant temperature when varying air flow or using specialty attachments
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- UL Listed, Made in USA
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing and more



PH-1300



Separate temperature and air flow controls



Complete heat shrink system



Proheat Variair with rugged storage case and all 5 specialty attachments

MODEL NO.	DESCRIPTION
PH-1300	130° F to 900° F 54°C to 482° C 6-15 CFM 120V 60 Hz 11A 1300W
PH-1300-1	130° F to 900° F 54°C to 482° C 6-15 CFM 120V 60 Hz 11A 1300W with bench stand (35216) and specialty connector attachment (35292)
PH-1300K	130° F to 900° F 54°C to 482° C 6-15 CFM 120V 60 Hz 11A 1300W with storage case and all 5 attachments (35309)

## Optional Accessories for both PH-1300 and PH-1200 Models

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
35016	3-1/2" spreader attachment	35309	Set of all five attachments
35017	1-3/8" heat shrink attachment	35216	Bench stand
35292	Specialty connector attachment	35026	Nozzle shield
35293	9/16" reducer attachment	35351	Storage/carrying case
35294	5/16" reducer attachment		

Specifications
<ul style="list-style-type: none"> <li>■ Air Volume: 6-15 CFM</li> <li>■ Air Velocity: 1425-3550 FPM</li> <li>■ Motor: Permanent Magnet</li> <li>■ Nozzle Opening: .88" I.D., 1.31" O.D.</li> <li>■ Cordset: 6 ft., 3-wire grounded</li> <li>■ Dimensions: 8.2" L x 3.0" W x 7.3" H</li> <li>■ Tool Net Weight: 1.6 lbs.</li> <li>■ Shipping Weight Tool: 2 lbs.</li> <li>■ Shipping Weight Kit: 7 lbs.</li> </ul>

NOTE: Users should independently evaluate the suitability of the product for their application.



Repair



Solder/Desolder



# Proheat® Varitemp® Heat Gun, Kit & Accessories

Rugged variable temperature heat gun

- New 230 Volt CE Certified model available with four cordset options
- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature 130°F to 840°F (54°C to 449°C)
- Patented electronic closed loop temperature control system maintains constant temperature and protects unit from overheating
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- UL Listed or CE Certified, Made in USA
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing and more



PH-1200  
PH-2200

USA  
MADE IN



35016

35017

35026

35216

35292

35293

35294

35351



Easy access variable temperature control



PH-1200-1  
PH-2200-1

Complete heat shrink system



PH-1200K  
PH-2200K

Proheat Varitemp with rugged storage case and all 5 specialty attachments

MODEL NO.	DESCRIPTION
PH-1200	130° F to 840° F 54°C to 449° C 15 CFM 120V 60 Hz 11A 1300W cUL <sub>US</sub>
PH-1200-1	130° F to 840° F 54°C to 449° C 15 CFM 120V 60 Hz 11A 1300W cUL <sub>US</sub> with bench stand (35216) and specialty connector attachment (35292)
PH-1200K	130° F to 840° F 54°C to 449° C 15 CFM 120V 60 Hz 11A 1300W cUL <sub>US</sub> with storage case and all 5 attachments, (35309)
PH-2200	130° F to 840° F 54°C to 449° C 16 CFM 230V 50/60 Hz 6.2A 1410W CE
PH-2200-1	130° F to 840° F 54°C to 449° C 16 CFM 230V 50/60 Hz 6.2A 1410W CE with bench stand (35216) and specialty connector attachment (35292)
PH-2200K	130° F to 840° F 54°C to 449° C 16 CFM 230V 50/60 Hz 6.2A 1410W CE with storage case and all 5 attachments (35309)

NOTE: Users should independently evaluate the suitability of the product for their application.

See Optional Accessories on page 8

## Specifications

- Air Velocity: 3584 FPM (PH-1200), 4000 (PH-2200)
- Motor: Permanent Magnet
- Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 8.2" L x 3.0" W x 7.3" H
- Tool Net Weight: 1.6 lbs.
- Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.



Replacement Heating Element with thermo couple  
120V 35031  
220V 35032



Dry Materials



Shrink Wrap

# Proheat® Heat Gun, Kit & Accessories

## Rugged dual temperature heat gun

- New 230 Volt CE Certified model available with four cordset options
- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Two heat settings 430°F or 840°F (221°C or 449°C)
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- UL Listed or CE Certified, Made in USA
- Use to activate adhesives, bend plastics, dry filler material, shrink tubing and more



PH-1100  
PH-2100



35016



35017



35216



35026



35351



PH-1100K  
PH-2100K

Proheat with rugged storage case and 2 specialty attachments



Replacement Heating Element  
120V 35004  
220V 35022

MODEL NO.	DESCRIPTION
PH-1100	430°F or 840°F 221°C or 449°C 15 CFM 120V 60 Hz 11A 656 or 1300W cUL US
PH-1100K	430°F or 840°F 221°C or 449°C 15 CFM 120V 60 Hz 11A 656 or 1300W cUL US with storage case and 2 attachments (35016 and 35017)
PH-2100	430°F or 840°F 221°C or 449°C 16 CFM 230V 50/60 Hz 6.2A 705 or 1410W CE
PH-2100K	430°F or 840°F 221°C or 449°C 16 CFM 230V 50/60 Hz 6.2A 705 or 1410W CE with storage case and all 2 attachments (35016 and 35017)

### Optional Accessories

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
35016	3-1/2" spreader attachment	35026	Nozzle shield
35017	1-3/8" heat shrink attachment	35351	Storage/carrying case
35216	Bench stand		

### Specifications

■ Air Volume: 15 CFM ■ Air Velocity: 3584 FPM (PH-1100), 4000 FPM (PH-2100) ■ Motor: Permanent Magnet ■ Nozzle Opening: .88" I.D., 1.31" O.D.  
■ Cordset: 6 ft., 3-wire grounded ■ Dimensions: 8.2" L x 3.0" W x 7.3" H ■ Tool Net Weight: 1.6 lbs. ■ Shipping Weight Tool: 2 lbs. ■ Shipping Weight Kit: 7 lbs.

NOTE: Users should independently evaluate the suitability of the product for their application.



Heat Adhesives



Strip Paint



Loosen Bolts

# Ecoheat® Heat Gun & Kit

Economical, lightweight, multi-use heat gun



- Two heat settings: 500°F or 1000°F (260°C or 540°C)
- Two fan speeds - Low or High (7 or 9 CFM)
- Resettable thermostat - Automatically protects element against overheating
- Lightweight - 1 lb. - Easy to hold at any angle for long periods of time, eliminates operator fatigue
- Built-in hand guard - Protects hand and fingers. Recessed switch guards against knocks and bumps
- 3-wire grounded cordset - Positive grounding system for user safety
- Thermoplastic housing - For high impact durability
- Built-in stand - Very stable, allows user to set heat gun down in an upright position for hands-free use
- Use to bend and form plastics, dry body fillers, remove decals, spot dry paint, shrink tubing, packaging and more



MODEL NO.	DESCRIPTION
EC-100	500°F or 1000°F 260°C or 540°C 7 or 9 CFM 120V 50/60 Hz 10A 656 or 1200W
EC-100K	500°F or 1000°F 260°C or 540°C 7 or 9 CFM 120V 50/60 Hz 10A 656 or 1200W
35225	Kit includes EC-100 Heat Gun, 7/8" reducer attachment, 1-1/4" shrink tubing reflector, 1-15/16" and 3-1/8" spreader attachments packed in a durable storage/carrying case
35215	Attachment kit contains 7/8" reducer attachment, 1-1/4" shrink tubing reflector, 1-15/16" and 3-1/8" spreader attachments
	Durable storage/carrying case



Kit includes storage case and four specialized nozzle attachments shown left to right: 7/8" reducer, shrink tubing reflector, 1-5/16" spreader and 3-1/8" spreader

### Specifications

- Air Volume: 7 or 9 CFM
- Air Velocity: 720 or 1100 FPM
- Motor: Permanent Magnet
- Nozzle Opening: 1.2" I.D., 1.35" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 8.5" L x 3.2" W x 7.7" H
- Tool Net Weight: 2 lbs.
- Shipping Weight Tool: 3 lbs.
- Shipping Weight Kit: 5 lbs.

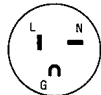
NOTE: Users should independently evaluate the suitability of the product for their application.

# Masterflow® Heat Blower

Heavy-duty, industrial quality, continuous-duty heat blower



Replacement Heating Element ★ NEMA 5-20 Plug



- 3 models produce 300°F, 500°F or 750°F. High temperatures accommodate many heating, drying & shrinking applications
- High air flow: 47 CFM at 2200 FPM gets job done fast
- Brushless induction type motor for quiet, continuous-duty operation
- Easily replaceable, reinforced, mica-insulated heating element
- Rubber-backed stand permits 90° non-slip adjustability
- Use in any position or mount on equipment
- Ergonomic handle for carrying or portable use
- Mount over conveyor line or on machinery
- Use to heat or dry materials, bend plastics, shrink wrap and more

### Specifications

- Air Volume: 47 CFM
- Air Velocity: 2200 FPM
- Motor: Induction
- Nozzle Opening: 1.85" I.D., 2.25" O.D.
- Dimensions: 12" L x 6" W x 9" H, (AH-301 & AH-302, 9" L x 6" W x 9" H)
- Base Size: 6" x 6"
- Cordset: 6 ft., 3-wire grounded
- Net Weight: 6 lbs.
- Shipping Weight: 8 lbs.

MODEL NO.	DESCRIPTION	REPLACEMENT ELEMENT
AH-301	300°F 150°C 120V 10.0A 60 Hz 1200 W	815
AH-501	500°F 260°C 120V 14.0A 60 Hz 1680 W	30310
AH-751 ★	750°F 400°C 120V 18.0A 60 Hz 2160 W	30312
AH-302	300°F 150°C 240V 5.2A 60 Hz 1200 W	816
AH-502	500°F 260°C 240V 7.3A 60 Hz 1680 W	30311
AH-752	750°F 400°C 240V 9.4A 60 Hz 2160 W	30313

NOTE: Users should independently evaluate the suitability of the product for their application.

# Master-Mite® Heat Gun

## Continuous-duty bench-top heating system

- Complete system comes standard with 650°F/343°C heating element, adjustable stand and heat shrink attachment
- Ideal heat & air flow (3.8 CFM), performs benchtop heating jobs without blowing components around the work station
- Quiet-running shaded pole motor, eliminates noisy production areas
- 3 optional easy-to-change plug-in heating elements available: 500°, 650° & 800°F
- Use to activate adhesive, cure epoxies, dry components, melt solder preforms, remove decals, shrink tubing and more

### Optional Replacement Heating Elements

PART NO.	DESCRIPTION
20012	Blue 500°F 260°C 120V 340W
20013	Silver 650°F 343°C 120V 475W
20014	Black 800°F 427°C 120V 525W
20033	Blue 500°F 260°C 220V 400W
20034	Silver 650°F 343°C 220V 450W
20035	Black 800°F 427°C 220V 500W
20160	Blue 500°F 260°C 240V 400W
20161	Silver 650°F 343°C 240V 450W
20162	Black 800°F 427°C 240V 500W

### Optional Accessories

PART NO.	DESCRIPTION
30201	Solder preform attachment
40060	Heat shrink attachment
40061	1/4" pinpoint attachment
50675	Bench stand



MODEL NO.	DESCRIPTION
10008	650° F/343° C 120V 60Hz 4.5A 475W
10009	650° F/343° C 220V 50Hz 2.0A 450W
10010	800° F/427° C 240V 50Hz 1.9A 450W

### Specifications

- Air Volume: 3.8 CFM ■ Air Velocity: 700 FPM ■ Motor: Shaded Pole ■ Nozzle Opening: .99" I.D., 1.03 O.D." ■ Cordset: 7 ft., 3-wire grounded ■ Dimensions: 8.8" L x 3.3" W x 7" H ■ Net Weight: 1.7 lbs. ■ Shipping Weight: 3 lbs.

NOTE: Users should independently evaluate the suitability of the product for their application.

# Master-Mite® ESD Heat Gun

## Continuous duty ESD bench-top heating system

- Complete system comes standard with black 800°F/427°C heating element, shrink attachment and adjustable stand
- Totally grounded system with housing surface conductivity 500 ohms square. Conductive housing will not build up or hold a static charge
- Housing helps to shield against EMI & RFI (electromagnetic & radio frequency interference)
- A long-life, quiet-running, maintenance free shaded pole motor
- Low velocity air flow will not blow components around the workstation
- 3 optional interchangeable plug-in heating elements available
- Complete line of attachments available
- Use to activate adhesive, cure epoxies, dry components, melt solder preforms, remove decals, shrink tubing and more

MODEL NO.	DESCRIPTION
10012	800°F/427°C 120V 60Hz 4.5A 525W
10014	800°F/427°C 100V 50/60Hz 4.9A 450W

### Optional Replacement Heating Elements

PART NO.	DESCRIPTION
20012	Blue 500°F/260°C 120V 340W
20013	Silver 650°F/343°C 120V 475W
20014	Black 800°F/427°C 120V 525W

### Optional Accessories

PART NO.	DESCRIPTION
30201	Solder preform attachment
40060	Heat shrink attachment
40061	1/4" pinpoint attachment
50675	Bench stand



### Specifications

- Ave. Air Volume: 3.8 CFM ■ Ave. Air Velocity: 700 FPM
- Motor: Shaded Pole ■ Nozzle Opening: .99" I.D., 1.03 O.D." ■ Cordset: 7 ft., 3-wire grounded ■ Dimensions: 8.8" L x 3.3" W x 7" H ■ Housing Static Decay 5000V to <50V <0.01 sec. ■ Housing Surface Res. <500 ohms/sq. ■ Net Weight: 1.75 lbs. ■ Shipping Weight: 3 lbs.

NOTE: Users should independently evaluate the suitability of the product for their application.

# Econolron® EI-20

## Economical, butane-powered soldering iron, flameless heat tool & torch

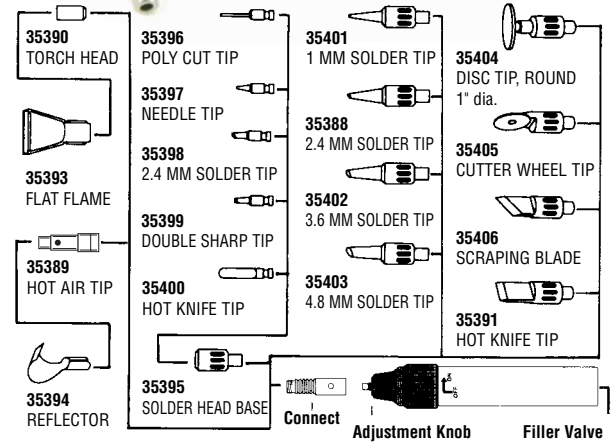
- Standard with soldering tip, hot air tip and torch tip
- Completely portable, lightweight and easy to handle
- Temperatures up to 2370°F/1300°C
- Ignite tool with flint lighter built into the cap
- Use to pinpoint flameless heat, silver solder, solder and desolder, heat shrink tubing and environmental connectors, strip insulation and cut plastics with hot knife tip, use as an open flame torch and more



MODEL NO.	DESCRIPTION
EI-20	Economical, refillable, butane-powered soldering iron, flameless heat tool and torch

### Optional Accessories

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
35388	2.4 mm soldering tip (std.)	35398	2.4 mm soldering tip – base req'd
35389	Flameless hot air tip (std.)	35399	Double sharp tip – base req'd
35390	Torch head (std.)	35400	Hot knife tip – base req'd
35391	Hot knife tip (std. EI-20K)	35401	1 mm soldering tip
35392	Cap with striker wheel	35402	3.6 mm soldering tip
35393	Flat flame	35403	4.8 mm soldering tip
35394	Reflector	35404	Disc tip, round 1" dia.
35395	Solder head base	35405	Cutter wheel tip
35396	Poly cut tip – base req'd	35406	Scraping blade
35397	Needle tip – base req'd	35407	Popular accessory kit



35407 Popular accessory kit includes: 35395 Solder head base, 35396 poly cut tip, 35397 needle tip, 35398 2.4 MM solder tip, 35399 double sharp tip, 35400 hot knife tip

Refill with Master Ultratane Butane for best performance. (page 24)

NOTE: Users should independently evaluate the suitability of the product for their application.

Specifications
<ul style="list-style-type: none"> <li>■ Approx. Soldering Tip Temp.: 395° F to 780° F (200° C to 420° C)</li> <li>■ Approx. Hot Air Tip Temp.: 780° F (420° C) ■ Approx. Torch Temp.: 2370° F (1300° C) ■ Equivalent to Electric Iron: 10 to 60 Watt ■ Approx. Operating Time: 60 min. ■ Fuel Tank Capacity: .6 fl. oz. (.01 L) ■ Dimensions: 6.5" L (16.6 cm) w/o cap ■ Net Weight: 1.9 oz. (54 g) ■ Shipping Weight: 1 lb. ■ Shipped Empty</li> </ul>

# Econolron® EI-20K

## Economical, butane-powered soldering iron, flameless heat tool & torch kit

- Kit contains tool, soldering tip, hot air tip, torch tip, hot knife tip, coil of 60/40 solder, sponge and tool stand packed in rugged plastic storage case
- Completely portable, lightweight and easy-to-handle
- Temperatures up to 2370°F/1300°C
- Ignite tool with flint lighter built into the cap
- Use to pinpoint flameless heat, silver solder, solder and desolder, heat shrink tubing and environmental connectors, strip insulation, cut plastics with hot knife tip, use as an open flame torch and more



MODEL NO.	DESCRIPTION
EI-20K	Economical, refillable, butane-powered soldering iron, flameless heat tool and torch kit

Specifications
<ul style="list-style-type: none"> <li>■ Approx. Solder Tip Temp.: 395° F to 780° F (200° C to 420° C) ■ Approx. Hot Air Tip Temp.: 780° F (420° C) ■ Approx. Torch Tip Temp.: 2370° F (1300° C) ■ Equivalent to Electric Iron: 10 to 60 Watt ■ Approx. Operating Time: 60 min. ■ Fuel Tank Capacity: .6 fl.oz. (.01 L) ■ Tool dimensions: 6.5" L (16.6 cm) w/o cap ■ Kit dimensions: 10" L X 5"W X 2"H (25.4 cm x 12.7 cm X 5 cm) ■ Torch Net Weight: 1.9 oz. (54 g) ■ Torch Kit Weight: 13.3 oz. (377 g) ■ Shipping Weight tool: 1 lb. ■ Shipping Weight Kit: 1 lb.(454 g) ■ Shipped Empty</li> </ul>



See above for more EI-20 accessories

Refill with Master Ultratane Butane for best performance. (page 24)

NOTE: Users should independently evaluate the suitability of the product for their application.

# High Performance Ultratip® Technology

Longer tip life, superior thermal conductivity

Master Appliance Ultratorch® heat tools feature Ultratip® soldering tips. Ultratip is the long lasting, oxygen-free, copper based, iron and chrome plated soldering tip with a built-in catalyst, tinned with lead-free solder.

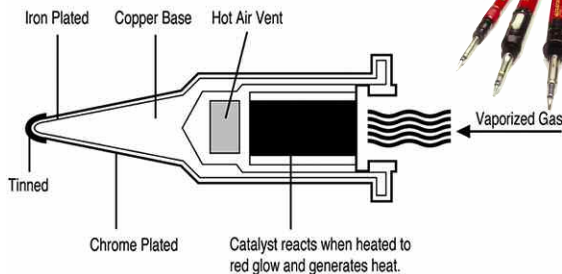
Ultratorch heat tools, with Ultratip Technology, are perfect for use with today's lead-free solders. In fact, Ultratip soldering tips have more than double the iron and chrome plating thickness of our competitors' brass based tips, providing higher thermal conductivity and much longer tip life.

## Tips for Lead-Free Hand Soldering

Because hand soldering tends to be done at the end of the line, where the value of a board is at its highest, switching to lead-free solder may have a significant effect on your manufacturing yields, costs and productivity. Simply increasing tip temperature is not the answer because it can cause flux to evaporate before it's had time to activate.

The keys to success here are tip material, tip shape, tip condition, the soldering iron's power output and it's time on the joint.

## Ultratip Technology



By choosing the tip shape closest to the component you're soldering, and always selecting the largest tip, you'll transfer heat more efficiently at lower settings. We offer a wide selection of tips for your applications.

Since lead-free solder's higher tin content erodes the tip's iron plating faster, Ultratip's thicker iron and chrome plating will significantly extend the tip life. Cleaning your tips often and immediately re-tinning them will also keep them in top condition longer.

# Ultratorch® UT-35

Economical, butane-powered, 3 in 1 soldering iron, flameless heat tool & torch

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- 3 in 1 soldering iron, flameless heat tool and torch
- Completely portable, lightweight and easy to use
- Does not require cords, batteries or cartridges, just a lighter
- Adjustable temperature control for temperatures up to 1200°F
- Equivalent to a 20-60 watt electric soldering iron
- Built-in window indicates fuel level
- Refill with Master Ultratane Butane for best performance. (page 24)
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more



MODEL NO.	DESCRIPTION
UT-35	Professional quality, economical, butane-powered soldering iron, flameless heat tool and torch

## Optional Accessories

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
60P-1	.2mm needle preheat soldering tip	60-01-01	1mm diameter tapered needle tip
60P-1C	1mm tapered needle preheat soldering tip	60-01-02	3.3mm diameter chisel tip (std.)
60P-1.2D	1.2mm chisel preheat soldering tip	60-01-03	2mm diameter spade tip
60P-1.6D	1.6mm chisel preheat soldering tip	60-01-04	3mm diameter spade tip
60P-0.5B	.5mm needle preheat soldering tip	60-01-52	5.6mm O.D./4.71mm I.D. hot air tip (std.)
60-02	Protective cap (standard)	70-01-55	Heat shrink attachment
60-07U	Ejector unit	113-01-10	Hot knife tip
60-14	Knurled cap nut	60P-K	Preheat hot knife tip

## Specifications

- Soldering Tip Temp.: 932° F (500° C) max
- Hot Air Tip Temp.: 1200° F (650° C) max
- Torch Tip Temp.: 2370° F (1300° C) max
- Equivalent to 20 to 60 Watt Electric Iron
- Operating Time: approx 60 min.
- Fuel Tank Capacity: 12 ML
- Dimensions: 7.3" L (185 mm) w/o cap
- Net Weight: 2.6 oz. (74g)
- Shipping Weight: 1 lb.
- Shipped Empty

Refill with Master Ultratane Butane for best performance. (page 24)



NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratorch® UT-40Si & UT-40SiH

Professional quality, economical, self-igniting soldering iron & flameless heat tool

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- Convenient slide switch ignition system for quick ignition
- Adjustable temperature lever for temperatures up to 1202°F
- Equivalent to a 20-80 watt electric soldering iron
- Compact size, lightweight and completely portable
- Rugged, easy-to-hold plastic body
- Butane powered with patented gas catalyst reaction system
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more

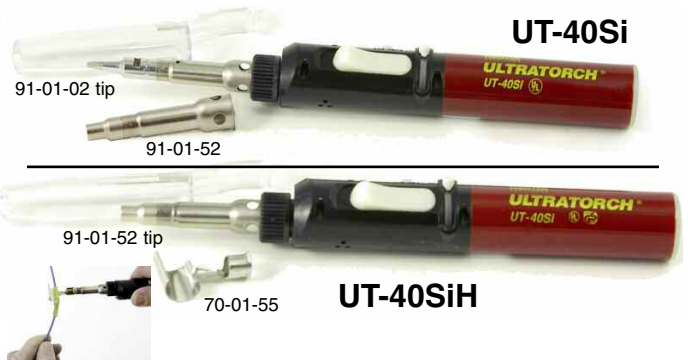
MODEL NO.	DESCRIPTION
UT-40Si	Ultratorch soldering iron/flameless heat tool
UT-40SiH	Ultratorch w/hot air tip & shrink attachment

### Optional Accessories

PART NO.	DESCRIPTION
<b>SOLDERING TIPS</b>	
91-01-01	1mm wide chisel soldering tip
91-01-02	2.4mm wide chisel soldering tip (std. Ut-40Si, Ut-40SiK)
91-01-03	2mm wide chisel soldering tip
91-01-04	5mm wide chisel soldering tip
<b>HOT AIR TIPS AND SHRINK ATTACHMENT</b>	
91-01-50	1.6mm wide hot air tip
91-01-52	4.7mm wide hot air tip (std. all models)
70-01-55	.5" dia. shrink attachment (std. UT-40SiH, UT-40SiK) (requires 91-01-52)
<b>HOT KNIFE TIP</b>	
91-01-53	Standard/with UT-40SiK
<b>PROTECTIVE CAP &amp; CARRYING STRAP</b>	
91-02	Protective cap (std. all models)
70-52U	Carrying strap

### Specifications

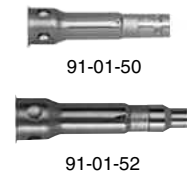
- See UT-40SiK for tool specifications



### Soldering Tips



### Heat Tips



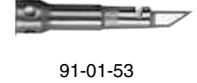
### Heat Shrink Attachment



### Protective Cap



### Hot Knife Tip



### Carrying Strap



NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratorch® UT-40SiK

Professional quality, economical, self-igniting soldering iron & flameless heat tool kit

- Kit contains Ultratorch, Ultratip® soldering tip, hot air tip, hot knife tip, shrink attachment, cap, sponge and stand, packed in a rugged plastic storage/carrying case
- Convenient slide switch ignition system for quick ignition
- Adjustable temperature lever for temperatures up to 1202°F,
- Equivalent to a 20-80 watt electric soldering iron
- Compact size, lightweight and completely portable, features a rugged, easy-to-hold plastic body
- Patented gas catalyst reaction system
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more

MODEL NO.	DESCRIPTION
UT-40SiK	Ultratorch UT-40SiK Kit

### Specifications

- Approx. Soldering Tip Temp. 840° F (450° C)
- Approx. Hot Air Tip Temp.: 1202° F (650° C)
- Equivalent to Electric Iron: 20 to 80 Watt
- Approx. Operating Time: 1.3 hrs.
- Fuel Tank Capacity: .5 fl. oz
- Dimensions: 8.3" L (208 mm)
- Tool Net Weight: 2.6 oz.
- Shipping Weight Tool: 1 lb.
- Shipping Weight Kit: 2 lbs.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.



See above for more UT-40Si accessories.  
Refill with Master Ultratane Butane for best performance.  
(page 24)

# Ultratorch® UT-50

Professional quality, pen-sized butane-powered soldering iron, flameless heat tool and torch

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- Pen-sized heat tool fits in your shirt pocket for absolute portability
- Aluminum fuel tank with viewing window to indicate fuel level
- Optional tips and accessories available
- Operates for approximately 20 minutes on a full charge
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder and desolder, spot dry, torch materials and more

MODEL NO.	DESCRIPTION
UT-50	Butane-powered soldering iron, flameless heat tool and torch

## Optional Accessories

PART NO.	DESCRIPTION
71-01-01	1 mm dia. tapered needle tip
71-01-02	2.4 mm dia. chisel tip (standard)
71-01-03	2 mm dia. spade tip
71-01-04	3 mm dia. spade tip
71-01-50	1.5mm dia. hot air tip
71-01-52	4.7mm dia. hot air tip (standard)
70-01-55	Heat shrink attachment
70-35	Ejector spanner wrench
70-52U	Carrying strap

## Specifications

- Approx. Soldering Tip Temp.: 392° F to 842° F (200° C to 450° C)
- Approx. Hot Air Tip Temp.: 806° F (430° C) ■ Approx. Torch Tip Temp.: 2372° F (1300° C) ■ Equivalent to Electric Iron: 20 to 60 Watt ■ Approx. Operating Time: 20 min. ■ Fuel Tank Capacity: .2 fl. oz. (6 cc)
- Dimensions: 6.5" L (165 mm) ■ Net Weight: 2.2 oz. (53 g)
- Shipping Weight: 1 lb. ■ Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.



71-01-01



71-01-02



71-01-03



71-01-04



71-01-50



71-01-52



70-01-55



70-35



70-52U

Refill with Master Ultratane Butane for best performance. (page 24)

# Ultratorch® UT-100SiEA

Self-igniting butane-powered flameless heat tool with fan assisted airflow

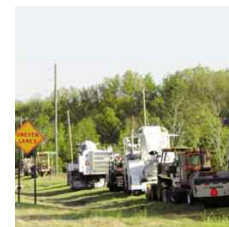
- Eliminates scorching and burning damage to shrink tubing during installation
- Variable temperature 302°F to 572°F (150°C to 300°C) with fan
- Enhanced Air Flow volume is 4 times greater with fan
- Variable temperature 482°F to 932°F (250°C to 500°C) without fan
- Butane-powered and completely portable/cordless, for use where no electrical outlets are available
- Built-in battery-powered motor uses 4 standard AA batteries
- Built-in LED light provides lighting in dark locations
- Built-in stand is convenient for safety and hands-free use
- Ideal for terminating shrink tubing and specialty connectors 10mm I.D. or less
- Use with or without enhanced air flow and with or without shrink attachment
- Ergonomic handle makes tool easy to use over an extended period of time
- UL & TUV Listed

MODEL NO.	DESCRIPTION
UT-100SiEA	Butane-powered flameless heat tool with fan assisted airflow

## Specifications

- Approx. Hot Air Temp. with fan: 302° F to 572° F (250°C to 500°C)
- Approx. Hot Air Temp. without fan: 482° F to 932° F (150°C to 300°C)
- Approx. Operating Time: 100 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Dimensions: 10.25" L (242 mm) 8.25" H (242 mm) ■ Hot Air Tip Opening: 8mm dia. ■ Net Weight: 11.25 oz. (319 g) ■ Shipping Weight: 1 lb (453g). ■ Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.





# Ultratorch® UT-100 & UT-100-TC

Butane-powered soldering iron, flameless heat tool and torch

- Triple function soldering iron, flameless heat tool and brazing torch
- Features oxygen-free, copper based Ultratip® soldering tips, with thick iron and chrome plating for long life and high thermal conductivity
- Cordless and completely portable, ready-to-use in 30 seconds
- Adjustable temperature control
- Soldering temperature up to 932°F, ideal for use with today's lead-free solder
- Hot air temperature up to 1202°F, perfect for Solderseal™ environmental "heat and seal" connectors
- Torch temperatures up to 2372°F/1260°C
- Sturdy metal tank with fuel viewing window holds enough fuel for 2 hours of operation
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder and desolder, spot dry, torch materials and more
- Optional accessories available and interchangeable between UT-100 & UT100Si. (See page 19)



## UT-100-TC

### Ultratorch Professional Kit:

Includes heat tool, 3 soldering tips, flameless hot air and open flame torch tips, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case



## UT-100 Ultratorch

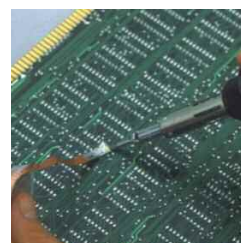
MODEL NO.	DESCRIPTION
UT-100-TC	Includes Ultratorch, three Ultratip soldering tips: 70-01-01, 70-01-02, 70-01-05, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, 70-07TU torch ejector, open end wrench, ejector, sponge, cap, solder, wire cutter and needle nose pliers packed in a rugged plastic carrying case
UT-100	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, 70-07TU torch ejector, open end wrench, ejector, sponge and steel case

See page 19 for more tips & accessories

Refill with Master Ultratane Butane for best performance. (page 24)

### Specifications

- Approx. Soldering Tip Temp.: 392° F to 932° F (200° C to 500° C)
- Approx. Hot Air Tip Temp.: 1112° F (600° C) ■ Approx. Torch Tip Temp. 2372° F (1260° C) ■ Equivalent to Electric Iron: 20 to 80 Watt ■ Approx. Operating Time: 120 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Tool dimensions: 9.5" L (242 mm) ■ Tool Net Weight: 3.7 oz. (90 g)
- UT-100 Shipping Weight: 1 lb. ■ UT-100-TC Shipping Weight: 3 lb (131KG) ■ Shipped Empty



Solder



Flameless Heat



Torch

NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratorch® UT-100 & UT-100Si Tips and Accessories

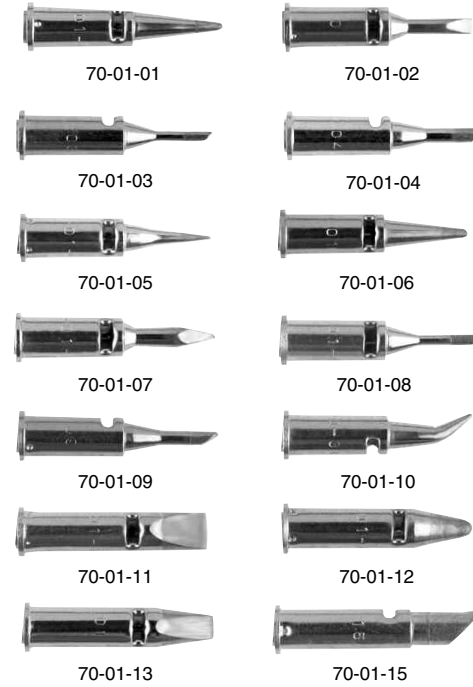
For use with UT-100 & UT-100Si Ultratorches

- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces a uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips pre-tinned with lead-free solder
- Optional accessories interchangeable between UT-100 & UT-100Si models

PART NO.	DESCRIPTION
<b>SOLDERING TIPS</b>	
70-01-01	1mm dia. tapered needle soldering tip (std. UT-100-TC, UT-100Si-TC)
70-01-02	3.3mm dia. chisel soldering tip (std., all models)
70-01-03	2mm dia. spade soldering tip
70-01-04	3mm dia. spade soldering tip
70-01-05	0.5mm dia. tapered needle soldering tip (std. UT-100-TC, UT-100Si-TC)
70-01-06	2mm dia. micro spade soldering tip
70-01-07	0.5mm dia. square tapered pyramid soldering tip
70-01-08	2mm dia. 35° spade soldering tip
70-01-09	3mm dia. 35° spade soldering tip
70-01-10	1mm dia. offset tapered needle soldering tip
70-01-11	8mm dia. high powered chisel soldering tip
70-01-12	3mm dia. high powered round head needle tip
70-01-13	.5mm dia. high powered long tapered chisel tip
70-01-15	7mm dia. 45° spade soldering tip
<b>HOT KNIFE TIP</b>	
70-01-16	Hot knife tip (std. UT-100-TC, UT-100Si-TC)
<b>HOT AIR TIPS</b>	
70-01-50	2.5 O.D./1.59 I.D. (mm) hot air tip
70-01-51	4.25 O.D./3.3 I.D. (mm) hot air tip
70-01-52	5.7 O.D./4.9 I.D. (mm) hot air tip (std. all models)
70-01-53	8.0 O.D./6.9 I.D. (mm) hot air tip
<b>ACCESSORIES</b>	
70-01-54	Large heat shrink attachment
70-01-55	Small heat shrink attachment (std. all models)
70-02	Protective cap (std. UT-100, UT-100-TC)
70-07TU	Ejector, torch (std. UT-100, UT-100-TC)
70-35	Ejector spanner wrench
70-37U	Tip cleaner sponge (std. with UT-100, UT-100SiK)
70-40U	Metal storage box (std. with UT-100, UT-100SiK)
70-43	Tool holder (std. with UT-100, UT-100SiK)
70-52U	Carrying strap
90-02	Protective cap (std. UT-100Si, UT-100Si-TC)
80-40	Open end wrench (std. UT-100Si, UT-100SiK and UT-100Si-TC)
<b>ADAPTER</b>	
70-01-14	8.4 tip adapter (4mm dia. x .7 pitch mm)

NOTE: Users should independently evaluate the suitability of the product for their application.

## Soldering Tips



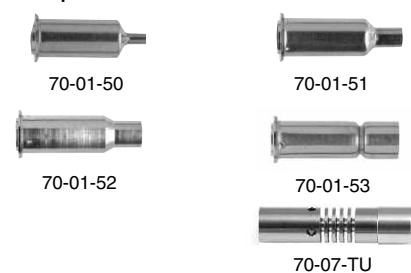
## Hot Knife Tip



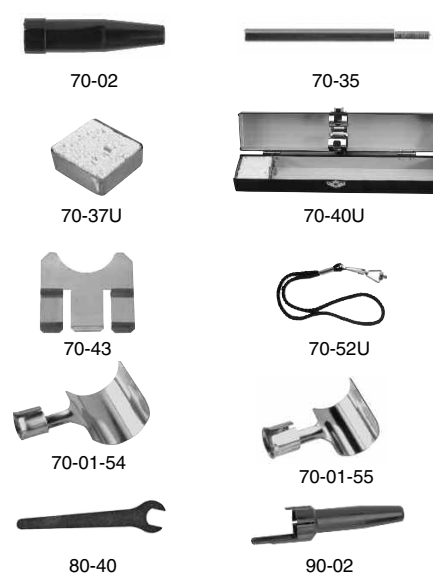
## Adapter



## Hot Air Tips



## Accessories



# Ultratorch® UT-100Si, UT-100SiK & UT-100Si-TC

Self-igniting butane-powered soldering iron and flameless heat tool

- Dual function soldering iron and flameless heat tool
- Features oxygen-free, copper based Ultratip® soldering tips, with thick iron and chrome plating for long life and high thermal conductivity
- Cordless and completely portable, ready-to-use in 30 seconds
- Self-ignition with push button for fast, easy starting
- Adjustable temperature control
- Soldering temperature up to 932°F, ideal for use with today's lead-free solder
- Hot air temperature up to 1202°F, perfect for Solderseal™ environmental "heat and seal" connectors
- Sturdy metal tank with fuel viewing window holds enough fuel for 2 hours of operation
- Contains everything needed to heat shrink tubing and specialty connectors, remove surface mount components, solder and desolder, repair vinyl, spot dry and cut materials
- Optional accessories available and interchangeable between UT-100 & UT100Si. (See page 19)



## UT-100Si-TC

### Ultratorch Professional Kit:

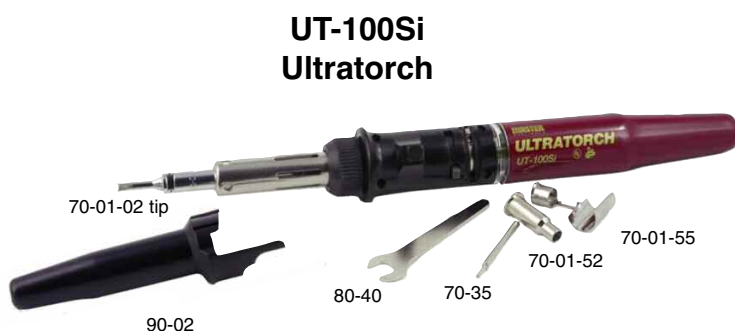
Includes heat tool, 3 soldering tips and flameless hot air tip, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case

MODEL NO.	DESCRIPTION
UT-100Si-TC	Includes Ultratorch, three Ultratip soldering tips: 70-01-01, 70-01-02, 70-01-05, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, open end wrench, ejector, sponge, cap, solder, wire cutter and needle nose pliers packed in a rugged plastic carrying case
UT-100SiK	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, open end wrench, ejector, sponge and steel case
UT-100Si	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, open end wrench, ejector and cap

See page 18 for more accessories



## UT-100SiK Ultratorch Kit



### Specifications (UT-100Si)

- Approx. Soldering Tip Temp.: 482° F to 932° F (250° C to 500° C)
- Approx. Hot Air Tip Temp.: 1202° F (650° C)
- Equivalent to Electric Iron: 20 to 80 Watt
- Approx. Operating Time: 120 min.
- Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Dimensions: 10.3" L (260 mm)
- Tool Net Weight: 5.5 oz. (100 g)
- Shipping Weight UT-100Si: 1 lb
- Shipping Weight UT-100SiK: 2 lbs
- Shipping Weight UT-100Si-TC: 2 lbs
- Shipped Empty



Solder



Flameless Hot Air

Refill with Master Ultratane Butane for best performance. (page 24)

NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratorch® UT-200, UT-200A, UT-200Si

Butane-powered soldering iron/heat tools

2.6 Hour Run Time



## UT-200

- Operates as a soldering iron, flameless heat tool and butane torch
- Standard with Utratip® soldering tip, hot air tip, shrink attachment and protective cap
- Equivalent to 200 watt max. electric soldering iron
- High power (BTU's) makes it perfect for heavy-duty service and maintenance
- Sturdy metal tank holds enough fuel for 2.6 hours of operation at middle temperature setting
- Adjustable temperatures up to 2372°F/1260°C
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors, torch materials and more



MODEL NO.	DESCRIPTION
UT-200	Butane-powered soldering iron, heat tool and torch with soldering tip, hot air tip, shrink attachment and protective cap
UT-200A	Butane-powered soldering tool with jumbo tip
UT-200Si	Self-igniting, butane-powered soldering iron/heat tool, with soldering tip, hot air tip, shrink attachment and protective cap

See page 18 for more accessories

Refill with Master Ultratane Butane for best performance. (page 24)

### Specifications

- Approx. Soldering Tip Temp.: 482° F to 986° F (250° C to 530° C)
- Approx. Hot Air Tip Temp.: 1004° F (540° C)
- Approx Torch Temp UT-200 2372°F (1260°C)
- Fuel Tank Capacity: 2.2 fl. oz. (63 cc)
- Dimensions: 11.9" L (300 mm)
- Net Weight: 9 oz. (186 g)
- Shipping Weight: 1 lb.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.



Over One Hour Run Time



## UT-200A

- Operates as a dedicated high powered, heavy-duty soldering iron with special 1.2" (30.7mm) Jumbo Ultratip® soldering tip
- Equivalent to 150-300 watt max. electric soldering iron
- Adjustable temperatures up to 986°F/530°C
- Completely cordless, let's you work almost anywhere
- Quick start up. Reaches full operating temperature within one minute
- Sturdy metal handle and refillable tank holds enough fuel to run 70 minutes at middle temperature setting
- Great for running seams in sheet metal, soldering large connections in the electrical, plumbing, construction, HVAC and metalworking applications



## UT-200Si

- Operates as a soldering iron and flameless heat tool
- Standard with Utratip® soldering tip, hot air tip, shrink attachment, spanner wrenches and protective cap
- Equivalent to 200 watt max. electric soldering iron
- Adjustable temperatures up to 1004°F/540°C
- Self-ignition with push button for fast, easy starting
- High power (BTU's) makes it perfect for heavy-duty service and maintenance
- Sturdy metal tank holds enough fuel for 2.6 hours of operation at middle temperature setting
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors, torch materials and more

# Ultratorch® 300Si

## Butane-powered pistol grip soldering iron and flameless heat tool



- Operates as a soldering iron or flameless heat tool
- Standard with Ultratip® soldering tip, hot air tip, shrink attachment and protective cap
- Convenient slide switch ignition system for quick ignition
- Pistol grip design, great for extended use applications
- High performance soldering tip can reach approx. 932°F/500°C
- Built-in window indicates fuel level
- High capacity, can run up to 3-hours on a full tank
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors and more

MODEL NO.	DESCRIPTION
UT-300Si	Butane-powered soldering iron and flameless heat tool

### Specifications

- Approx. Soldering Tip Temp.: 932° F (500° C) ■ Approx. Hot Air Tip Temp.: 1112° F (600° C) ■ Equivalent to Electric Iron: 200 Watt max.
- Approx. Operating Time: 180 min. ■ Fuel Tank Capacity: 2.7 fl. oz. (80cc) ■ Dimensions: 7.3" H x 6.8" L (186 mm H x 172 mm W)
- Net Weight: 9.9 oz. (352 g) ■ Shipping Weight: 1 lb. ■ Shipped Empty

Refill with Master Ultratane Butane for best performance. (page 24)

NOTE: Users should independently evaluate the suitability of the product for their application.

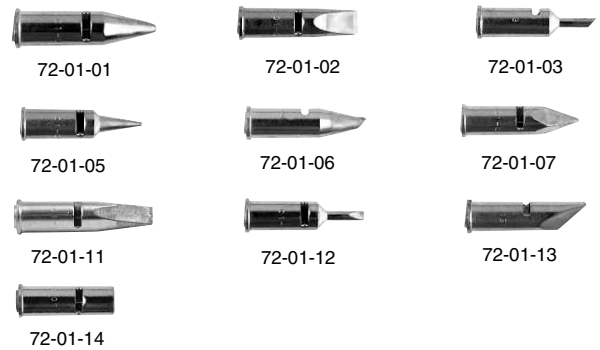
# Ultratorch® UT-200, UT-200Si & UT-300Si Tips and Accessories

## For use with UT-200, UT-200Si & UT-300Si Ultratorches

- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces a uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips are pre-tinned with lead-free solder
- Optional accessories interchangeable between UT-200, UT-200Si and UT-300Si models

PART NO.	DESCRIPTION
<b>SOLDERING TIPS</b>	
72-01-01	3mm dia. tapered needle soldering tip
72-01-02	10mm dia. chisel soldering tip (std. UT-200, UT-200Si)
72-01-03	4mm dia. spade soldering tip
72-01-05	1mm dia. tapered needle soldering tip
72-01-06	4mm dia. micro spade soldering tip
72-01-07	1.5mm dia. tapered pyramid soldering tip
72-01-11	7mm dia. chisel soldering tip (std. UT-300Si)
72-01-12	4mm dia. chisel soldering tip
72-01-13	12.5mm dia. 45° spade soldering tip
<b>HOT AIR TIPS</b>	
72-01-51	5.6 O.D./3.6 I.D. (mm) hot air tip
72-01-52	8.6 O.D./6.6 I.D. (mm) hot air tip (std. all models)
72-01-53	11.5 O.D./9.7 I.D. (mm) hot air tip
<b>ACCESSORIES</b>	
72-01-54	Heat shrink attachment 32mm wide (std. UT-300Si)
72-01-55	Heat shrink attachment 27mm wide (std. UT-200, UT-200Si)
72-02	Protective cap (std. UT-200, UT-200Si)
72-52U	Carrying strap
80-35	Ejector spanner wrench (std. UT-200Si)
80-40	Open end wrench (std. UT-200, UT-200Si)
78-02	Protective cap (std. UT-300Si only)
<b>ADAPTER</b>	
72-01-14	Adapter (5mm dia. x 8mm pitch) tip

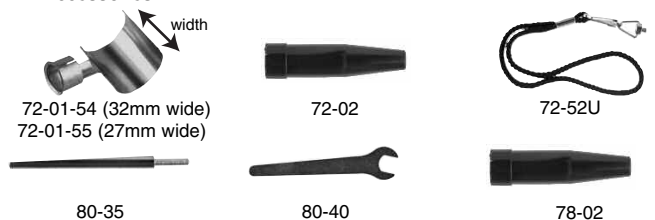
### Soldering Tips



### Hot Air Tips



### Accessories



NOTE: Users should independently evaluate the suitability of the product for their application.

# Microtorch Model MT-5

Pocket-sized, refillable, butane-powered microtorch



- Compact pocket size that fits easily into pocket or tool kit
- Quick starting self-igniting piezo electric ignition eliminates the need for lighters or matches
- Flame resists wind and moisture and is perfect for outdoor use
- Adjustable flame height for low and high temperatures up to 2500°F/1300°C blue flame
- Safety lock and attached safety cap prevent unintentional ignition
- Hands-free mode
- Refill with Master Ultratane Butane for best performance. (page 24)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to heat and ignite materials, repair glass, shrink tubing, solder and desolder, terminate specialty connectors and more

MODEL NO.	DESCRIPTION
MT-5	Pocket-sized Microtorch

## Specifications

- Approx. Flame Temp. 2500° F
- Fuel Tank: Plastic, Built-in, Refillable
- Approx. Run Time: 20 min. @ max. setting
- Dimensions: 2.9" H x 1.3" W x .9" D
- Net Weight: 1.7 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

*NOTE: Users should independently evaluate the suitability of the product for their application.*

# Microtorch Models MT-11 & MT-11K

Compact palm-sized, self-igniting, butane-powered microtorch & kit



- Built-in self-igniting system with safety lock
- Temperatures up to 2500°F/1300°C
- Compact palm-sized, perfect for tool kits and field service kits
- Adjustable wind-resistant flame
- Replaceable, refillable "fuel cell" (included)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Kit includes microtorch with empty fuel cell and 15/16 oz. can of butane packed in single shipper carton with proper D.O.T. markings
- Ships via ground transportation without hazmat charges
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more

MODEL NO.	DESCRIPTION
MT-11	Palm-sized Microtorch, shipped without fuel
MT-11K	Microtorch with 15/16 oz. can of butane (10448)
RC-31	Replacement fuel cell 2 pack (see page 24)

## Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: 20 min. @ max. setting
- Fuel Tank: Refillable Fuel Cell
- Dimensions: 4.3" H x 2.5" W x 1" D
- Net Weight: 2.1 oz.
- Shipping Weight: 1 lb.
- Shipping Weight Kit: 2 lbs.

*NOTE: Users should independently evaluate the suitability of the product for their application.*

# Microtorch Models MT-51, MT-51B & MT-51H

Hand-held or table-top butane-powered microtorch

- Built-in self-igniting system with safety lock that ensures the switch is not turned on when not in use
- Built-in refillable plastic fuel tank
- Wide, stable base is perfect for hands-free use
- Temperature up to 2500°F/1300°C
- 2 hour continuous burn time, perfect for continuous heat applications
- Adjustable broad or pinpoint flame
- Refill with Master Ultratane Butane for best performance. (page 24)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more

MODEL NO.	DESCRIPTION
MT-51	Microtorch, table-top
MT-51B	Microtorch, table-top with <sup>15</sup> / <sub>16</sub> oz. butane (10448)
MT-51H	Microtorch, table-top includes hot air tip (35387) and 1" diameter heat shrink attachment (35394)

### Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: Two Hours
- Fuel Tank: Plastic, Built-in, Refillable
- Dimensions: 6.1" H x 3" W x 1.3" D
- Net Weight: 5 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.



MT-51



MT-51B

Included butane canister provides three fuel refills.



MT-51H

Hot Air Tip provides flameless heat for heat shrink applications

# Triggertorch™ Models MT-76 & MT-76K

Professional quality, hand-held or table-top, butane-powered, self-igniting triggertorch, soldering iron and flameless heat tool

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2,500°F/1300°C
- MT-76 includes soldering tip and hot air tip for soldering up to 752°F/400°C and heating up to 932°F/500°C
- Kit includes triggertorch, removable stand, 5" wire cutter, 5" needle nose pliers, soldering tip, hot air tip, shrink attachment, polyfoam cutter, hot knife tip, roll 60/40 solder, and stand with sponge packed in a durable plastic storage/carrying case
- Incorporates "trigger" switch with "pulldown" lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- "Hands-free" slide lock for continuous use and instant off operation
- Unique shutter lever to easily extinguish ignition flame when using soldering or hot air tip attachments
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- Refill with Master Ultratane Butane for best performance (page 24)
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more

MODEL NO.	DESCRIPTION
MT-76	Triggertorch with table-top stand, soldering tip (35386) & hot air tip (35387)
MT-76K	Triggertorch Kit with table-top stand, soldering tip (35386), hot air tip (35387), hot knife tip (35400), shrink attachment (35394), polyfoam cutter (35396), 5" wire cutter, 5" needle nose pliers, 60/40 solder and sponge packed in a durable plastic case

### Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: Two Hours
- Fuel Tank: Plastic, Built-in, Refillable
- Dimensions: 6.5"H x 3.8"W x 1.3"D
- Tool Weight: 1.0 lb.
- Net Weight: 8.1oz.
- Shipping Weight Kit: 2.0 lbs.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.



MT-76

35386 35387



MT-76K

# General Industrial Torch Model GT-70

Self-contained, butane powered, heavy-duty, general industrial torch



- Self-igniting piezo electric ignition is easy to start and eliminates need for lighter
- Durable self-contained, metal fuel tank
- Large fuel capacity, 80 cc tank for 30-minute continuous run time
- Large sized adjustable blue flame accommodates heavy-duty industrial applications with temperatures up to 2500°F/1300°C
- Safety lock prevents unintentional ignition, locks for storage
- Refill with Master Ultratane Butane for best performance
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to braze with special alloy welding rods, heat and bend thin metals, loosen rusted bolts, pop dents out of metal, shrink and terminate heavy wall adhesive-lined tubing, solder and desolder and more

MODEL NO.	DESCRIPTION
GT-70	General Industrial Torch

## Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: 30 Min.
- Fuel Tank: Metal, Built-in, Refillable
- Dimensions: 6.5" H x 5" W x 1.8" D
- Net Weight: 10.6 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratane® Butane

For use with all Master butane-powered products



**51773**  
5 1/8 oz.



**10448**  
1 5/16 oz.



**RC-31**



- Recommended fuel for all Master butane-powered products
- Triple-refined formula reduces clogging of filters
- Special vapor pressure promotes consistent ignition
- Contains no CFC's
- Available in two aerosol canister sizes: 5 1/8 oz. (145 gm) and 1 5/16 oz. (26.5 gm) and refillable RC-31 fuel cells
- Model 10448 has proper D.O.T. markings to ship via ground transportation without hazardous material charges
- Model 51773 ships via ground transportation with hazardous material charges

MODEL NO.	DESCRIPTION
51773	5 1/8 oz. (145 gram) canister with universal tip adapter
10448	1 5/16 oz. (26 gram) canister with universal tip adapter
RC-31	Refillable butane fuel cell. Carded 2 per card

## RC-31 Fuel Cell (for use with MT-11)

- RC-31 has proper D.O.T. markings to ship via ground transportation without hazardous material charges
- RC-31 is not considered a cigarette lighter
- RC-31 is a refillable fuel cell to replace pre-childproof lighters
- Refillable with Master Ultratane® Butane 51773 and 10448 while mounted in tool

NOTE: Users should independently evaluate the suitability of the product for their application.



# PortaPro® Glue Gun

Cordless, butane-powered hotmelt glue gun

- Completely portable, lets you work almost anywhere
- Industrial power and durability
- One touch, fast piezo ignition
- Reaches operating temperature in less than 4 minutes
- Runs continuously for up to 140 minutes without refueling
- Fuel view window indicates fuel level
- Refill with Master Ultratane Butane for best performance. (page 24)
- Built-in fold away stand
- Unlimited versatility
- Use to bond corrugated materials, chipboard and wood, fasten plastics, light metals, textiles, shock absorbent packaging, capacitors, resistors, soldered parts, electrical potting/staking parts on PC boards and jumper wires, reseal products during packaging, and glue down carpeting



## GG-100 PortaPro Glue Gun

Includes glue gun, general purpose tip (35408) and four general purpose 6" glue sticks



MODEL NO.	DESCRIPTION
GG-100	PortaPro Glue Gun
GG-100K	PortaPro Glue Gun Kit

### Accessories

PART NO.	DESCRIPTION
35408	Standard general purpose tip
35409	Needle extension tip
35410	Diagonal cut extension tip
35411	Spreader extension tip
35412	12 General purpose glue sticks 12" long x 1/2" dia.
35413	12 Carton closing glue sticks 12" long x 1/2" dia.
35414	12 Woodworking glue sticks 12" long x 1/2" dia.
35454	20 lbs. General purpose glue sticks (approx. 290 sticks)
35455	20 lbs. Carton closing glue sticks (approx. 290 sticks)
35456	20 lbs. Woodworking glue sticks (approx. 290 sticks)

Contact Master Appliance for glue stick specifications



Continuous use operating times up to 140 minutes



Cordless operation is fast and convenient



## GG-100K PortaPro Glue Gun Kit

includes: glue gun, 4 tips, 8 general purpose 6" long glue sticks & manual packed in a rugged storage case. Case has slot to hold Master Butane (51773 not included)

### Specifications

- Operating Temp: Approx. 392°F/200°C
- Ramp Up Time: 3-4 minutes
- Recommended Glue Stick: 1/2"
- Glue Melt Rate: up to 1.9 lbs. per hour
- Ave. Run Time: Approx. 140 minutes (full tank)
- Fuel Capacity: 20 ml.
- Dimensions: 8.4" L x 2.1" W x 8.0" H
- Tool Net Weight: 14.8 oz. w/o fuel
- Shipping Weight Tool: 1.8 lbs.
- Shipping Weight Kit: 3 lbs.
- Shipped Empty



35408 Standard General Purpose Tip  
Dia. 4.47mm O.D.



35409 Needle Extension Tip  
7.8mm long  
Dia. 3.2mm O.D.



35410 Diagonal Cut Extension Tip  
8.4mm long x 45°  
Dia. 4.74mm O.D.



35411 Spreader Extension Tip  
7.6mm(L) x 6.6mm(W)  
0.50mm I.D. slot

NOTE: Users should independently evaluate the suitability of the product for their application.

# Micropro® AC MP-100 standby Soldering Iron

## Personal electric soldering iron

- Compact, lightweight, easy-to-use
- Fingertip grip, just two inches from target, is ideal for precise work
- Standby temperature mode reduces tip temperature during pauses between soldering jobs for faster warm-up to full solder temperatures
- Standby mode significantly extends tip life, (standby temp: 290°F/140°C, soldering temp: 1004°F (540°C))
- Heating element is located in the solder tip for outstanding heat transfer, heat up and recovery times - 14 watts maximum power
- Green/red LED indicators for standby and operating modes
- Perfect for use with today's lead-free solder
- Perfect personal soldering tool for R&D, electronic engineers and repair technicians



NOTE: Users should independently evaluate the suitability of the product for their application.

MODEL NO.	DESCRIPTION
MP-100	Micropro AC electric standby soldering iron

### Optional Accessories

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
35430	.25mm conical tip	35436	Hot knife tip
35431	.50mm conical tip (std.)	35438	AC/DC power adapter
35432	1.6mm chisel tip	35439	Adapter cord
35433	2.4mm chisel tip	35440	Protective cap
35434	1.0mm bevel tip	35441	Stand/tip removal tool
35435	2.0mm bevel tip		

### Specifications

■ Approx. Tip Life: 30,000 cycles (joints) ■ Heater Type: iron-plated anti-corrosion ■ Solder tool dimensions: (with tip) 6.5" L x .52" W (165mm L x 13.20 mm W), ■ Adapter dimensions: 3" x 1.9" x .1.3" (75mm L x 48mm W x 35mm D) ■ Tool Weight: 1.1 oz. (30 grams) ■ Adapter Weight: 2.7 oz. (76.5 grams) ■ Shipping Weight: 1 lb. (454 grams)

# MicroPro® BT-30 Battery Powered Soldering Iron

## Lightweight, compact, completely portable soldering iron

- Standard tool includes 2 Ultratip® soldering tips (1-.5mm conical tip and 1-1.5mm chisel tip), tip removal wrench, and 3 AA Alkaline batteries
- Lightweight and completely portable, equivalent to a 6W electric iron
- Solders approximately 60 minutes continuous duty
- Solders up to 160 joints intermittently with new batteries
- Fast start-up, reaches 361° F (183° C) in 10 seconds
- Total of 8 tips available (2 standard)
- Top quality, plug-in solder tips incorporate built-in heater (patent pending)
- Use to solder and desolder micro sized to small sized parts, perfect for field service and repair work



MODEL NO.	DESCRIPTION
BT-30	Micropro battery-powered, portable soldering iron

### Optional Accessories

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
35364	.5mm conical tip (std.)	35366	1.0mm chisel tip
35367	1mm conical tip	35372	1.5 chisel tip (standard)
35370	1.5mm conical tip	35373	Tip remover
35365	.8mm spade tip	35374	Protective cap
35368	1.3mm spade tip	35375	1.5V AA Alkaline batteries, package of 4
35371	1.8mm spade tip		

### Specifications

■ Approx. Solder Tip Temp.: 6W (max) 932° F (500° C) ■ Max. Solder Tip Temp.: 1040° F (560° C) ■ Approx. Tip Life: 30,000 cycles (joints) ■ Time to Reach Operating Temp.: 361° F in 10 Sec. (183° C in 10 Sec.) ■ Approx. Temp. Drop When Touching Object: 212° F (100° C) ■ Heater Type: Built-in, plug-in mounting, iron-plated anti-corrosion ■ Approx. Run Time: 60 Min. Continuous w/New Batteries ■ Approx. No. of Solder Joints, Intermittently: 160 using New Batteries ■ Batteries: 3-1.5V Alkaline, AA ■ Dimensions: 6.8" L x 1.4" W x .8" D (173mm L x 35.5mm W x 20mm D) ■ Net Weight: 3.8 oz. w/Batteries (105 grams w/Batteries) ■ Shipping Weight: 1 lb.

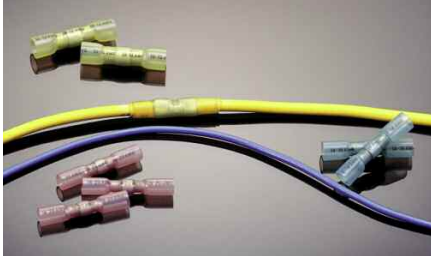


NOTE: Users should independently evaluate the suitability of the product for their application.

# Sealed Electrical Systems

Environmentally sealed connections create permanent repairs

- Heavy Duty Trucking
- Marine & RV
- Plant Maintenance Departments
- OEM & Automotive Aftermarket
- Heavy Duty Equipment
- Oil Fields & Mining
- Municipalities & Military Bases

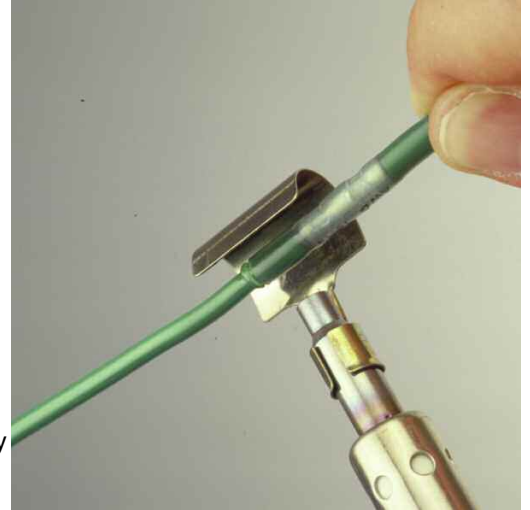


The past decade has seen the advent of sweeping technological advances in the automotive, fleet, and marine industries. Many of these advances involve improved electrical systems, controlled by miniature onboard computers. Consequently, small variations in voltage can significantly affect vehicle performance.

To combat these problems and increase longevity, the major manufacturers in these industries are using completely sealed electrical systems.

Unfortunately, the repair and maintenance industry is lagging behind. The integrity of sealed electrical harnesses is often breached when repairs are made with inferior, unsealed electrical connectors. Master Appliance has the solution.

The heat shrink connector is the innovative solution that allows the aftermarket to keep pace with changing technology. Each repair made with a heat shrink connector is individually protected from corrosion, contaminants and current leakage. This ensures that the original integrity of the wiring harness is maintained.



## Sealed Electrical Systems

Seal Your Connectors!  
Make Permanent Repairs!

Resist water & condensation  
Resist salt & other contaminants  
Resist wire pull out & current leakage

Master Appliance high quality adhesive-lined Heat-Seal Electrical Connectors are available in three styles:

**Multiseal™**

Crimp, solder & heat-seal connectors

**Solderseal™**

Solder & heat-seal connectors

**Proseal™**

Crimp and heat-seal connectors

# Multiseal™ Electrical Connector Kits

High quality crimp, solder & heat-seal connectors

- Crimped for mechanical reliability; soldered for strength and conductivity, and heat sealed for superior durability
- Prevents opening of connector barrel for stronger crimp
- Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion, and provides a water and contaminant resistant seal
- Color-coded tubing with wire gauge imprint – Provides easy identification of the correct part for the job
- Superior integrity of electrical systems – Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **103 lbs tensile strength**

**NEW!**

10058



10067



10066



10068



## 10058 - Multiseal Butt Splice Connector Minipak

Butt Connectors	Description	Qty
	18-20 AWG, Butt Connector, Red	20
	14-16 AWG, Butt Connector, Blue	20
	10-12 AWG, Butt Connector, Yellow	10

**3 items & 50 pieces**



Crimp barrel inside



Solder preform inside

## 10067 Multiseal Connector Kit

	Description	Qty
Ring Terminals	18-20 AWG, Ring Terminal, #6 Stud, Red	5
	18-20 AWG, Ring Terminal, #10 Stud, Red	5
	14-16 AWG, Ring Terminal, #10 Stud, Blue	5
	14-16 AWG, Ring Terminal, 1/4" Stud, Blue	5
	14-16 AWG, Ring Terminal, 3/8" Stud, Blue	5
	10-12 AWG, Ring Terminal, #10" Stud, Yellow	5
	10-12 AWG, Ring Terminal, 1/4" Stud, Yellow	5
	10-12 AWG, Ring Terminal, 3/8" Stud, Yellow	5
	10-12 AWG, Ring Terminal, 1/2" Stud, Yellow	5
Spade Terminals	18-20 AWG, Spade Terminal, #10, Red	5
	14-16 AWG, Spade Terminal, #10, Blue	5
	10-12 AWG, Spade Terminal, #10, Yellow	5
Butt Connectors	22-24 AWG, Butt Connector, Clear	5
	18-20 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	15
	10-12 AWG, Butt Connector, Yellow	10
Insulated Couplers	18-20 AWG, Female Coupler, 1/4 Tab, Red	5
	14-16 AWG, Female Coupler, 1/4 Tab, Blue	5
	18-20 AWG, Male Coupler, 1/4" Tab, Red	5
	14-16 AWG, Male Coupler, 1/4" Tab, Blue	5

**20 items and 120 pieces**

## 10066 - Multiseal Connector Kit with Tool Slot

## 10068 - Multiseal Connector Kit with UT-100Si & Crimper

	Description	Qty
Ring Terminals	18-22 AWG, Ring Terminal, #10 Stud, Red	5
	14-16 AWG, Ring Terminal, #8 Stud, Blue	5
	14-16 AWG, Ring Terminal, #10 Stud, Blue	5
	14-16 AWG, Ring Terminal, 1/4" Stud, Blue	5
	14-16 AWG, Ring Terminal, 3/8" Stud, Blue	5
	10-12 AWG, Ring Terminal, #10 Stud, Yellow	5
Butt Connectors	18-22 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	10
	10-12 AWG, Butt Connector, Yellow	10
	10-12 AWG, Butt Connector, Yellow	10
Insulated Couplers	18-20 AWG, Female Coupler, 1/4 Tab, Red	5
	14-16 AWG, Female Coupler, 1/4 Tab, Blue	5
	18-20 AWG, Male Coupler, 1/4" Tab, Red	5
	14-16 AWG, Male Coupler, 1/4" Tab, Blue	5

**14 items and 90 pieces**



1. Strip wires 3/8" and insert into crimp barrel of the connector

2. Crimp the wires in crimp barrel.

3. Apply heat to the connector until solder and adhesive flows and tubing recovers. Allow the connector to cool.

**Crimp**

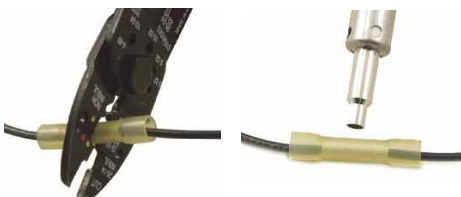
Mechanical reliability holds wires in place

**Solder**

Ultimate tensile strength • Superior conductivity

**Seal**

Durable insulation • Watertight connection



Temperature rating:	-67°F to 230°F -55°C to 110°C
Longitudinal change:	+1, -10%
Recovery temperature:	275°F/135°C
Dielectric strength:	900 Volts/Mil.
UL Voltage Rating:	600 Volts
Corrosion resistance:	Non-corrosive
Fungus Resistance:	Non-nutrient
Water absorption:	<0.1%

# Solderseal™ Electrical Connector Kits

High quality solder & heat-seal connectors

- High quality, sealed solder connection that takes the guess-work out of soldering water tight connections
- Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length creating better insulation along with wire superior support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion, and provides a water and contaminant resistant seal
- Ensures the original integrity of wire connections and wiring harnesses and conforms with OEM standards  
**102 lbs tensile strength**



10056



## 10056 - Solderseal Butt Splice Connector Minipak

Butt Connectors	Description	Qty
	22-24 AWG, Butt Connector, Red	10
	18-20 AWG, Butt Connector, Red	15
	14-16 AWG, Butt Connector, Blue	15
	10-12 AWG, Butt Connector, Yellow	15

**4 items & 55 pieces**

10724



10729

## 10724 - Solderseal Connector Kit

	Description	Qty
Ring Terminals	18-20 AWG, Ring Terminal, Red, #6 Stud	5
	18-20 AWG, Ring Terminal, Red, #8	5
	18-20 AWG, Ring Terminal, Red, #10	5
	18-20 AWG, Ring Terminal, Red, 1/4"	5
	14-16 AWG, Ring Terminal, Blue, #8	5
	14-16 AWG, Ring Terminal, Blue, #10	5
	14-16 AWG, Ring Terminal, Blue, 1/4"	5
	14-16 AWG, Ring Terminal, Blue, 3/8" Stud	5
	10-12 AWG, Ring Terminal, Yellow, #10 Stud	5
	10-12 AWG, Ring Terminal, Yellow, 1/4" Stud	5
Spade Terminals	18-20 AWG, Spade Terminal, Red, #10	5
	14-16 AWG, Spade Terminal, Blue, #10 Stud	5
	10-12 AWG, Spade Terminal, Yellow, #10 Stud	5
Butt Connectors	22-24 AWG, Butt Connector, Clear	5
	18-20 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	10
	10-12 AWG, Butt Connector, Yellow	5
Insulated Couplers	18-20 AWG, Slip-On Connector, Red, .250 Female	5
	18-20 AWG, Slip-On Connector, Red, .250 Male	5
	14-16 AWG, Slip-On Connector, Blue, .250 Female	5
	14-16 AWG, Slip-On Connector, Blue, .250 Male	5
	10-12 AWG, Slip-On Connector, Yellow, .250 Female	5
	10-12 AWG, Slip-On Connector, Yellow, .250 Male	5

**25 items and 135 pieces**

## 10729 - Solderseal Connector Kit with Tool Slot

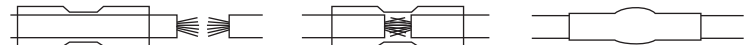
## 10725 - Solderseal Connector Kit with UT-100Si

	Description	Qty
Ring Terminals	18-20 AWG, Ring Terminal, Red, #10	5
	14-16 AWG, Ring Terminal, Blue, #10	5
	14-16 AWG, Ring Terminal, Blue, 1/4"	5
	14-16 AWG, Ring Terminal, Blue, 3/8" Stud	5
	10-12 AWG, Ring Terminal, Yellow, #10 Stud	5
	10-12 AWG, Ring Terminal, Yellow, 3/8" Stud	5
Butt Connectors	22-24 AWG, Butt Connector, Clear	10
	18-20 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	10
	10-12 AWG, Butt Connector, Yellow	10
Insulated Couplers	14-16 AWG, Slip-On Connector, Blue, .250 Female	5
	14-16 AWG, Slip-On Connector, Blue, .250 Male	5

**12 items and 80 pieces**



10725



1. Strip wires 3/8" and slide the connector over one of the wires. Separate the wire strands.

2. Intermingle the wire strands and slide the connector over the joined wires.

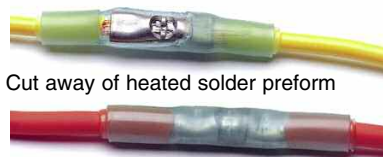
3. Apply heat to the connector until solder and adhesive flows and tubing recovers. Allow the...

## Solder

Ultimate tensile strength • Superior conductivity

## Seal

Durable insulation • Watertight connection



Temperature rating: -67°F to 230°F  
-55°C to 110°C  
Longitudinal change: +1, -10%  
Recovery temperature: 275°F/135°C  
Dielectric strength: 500 Volts/Mil.  
UL Voltage Rating: 600 Volts  
Corrosion resistance: Non-corrosive  
Fungus Resistance: Non-nutrient  
Water absorption: <0.1%

# Proseal™ Electrical Connector Kits

High quality crimp & heat-seal connectors

- The finest “Crimp & Heat-Seal” connector on the market today. Better wire contact - Less voltage drop - Better current flow
- Seamless butt connectors & brazed seam rings and spades – Prevents opening of connector barrel for stronger crimp
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length, creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion and provides a water and contaminant resistant seal
- Color-coded tubing with wire gauge imprint – Provides easy identification of the correct part for the job
- Superior integrity of electrical systems – Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **89 lbs tensile strength**

**NEW!**  
**ITEM**



10054



10600



10723



10719



## 10054 - Proseal Butt Splice Connector Minipak

Butt Connectors	Description	Qty
	18-20 AWG, Butt Connector, Red	20
	14-16 AWG, Butt Connector, Blue	20
	10-12 AWG, Butt Connector, Yellow	5

**3 items & 45 pieces**

## 10600 Assortment Proseal Connector Kit

Ring Terminals	Description	Qty
	18-20 AWG, Ring Terminal, #6 Stud, Red	5
	18-22 AWG, Ring Terminal, #10 Stud, Red	5
	14-16 AWG, Ring Terminal, #8 Stud, Blue	5
	14-16 AWG, Ring Terminal, #10 Stud, Blue	5
	14-16 AWG, Ring Terminal, 1/4" Stud, Blue	5
	14-16 AWG, Ring Terminal, 3/8" Stud, Blue	5
	10-12 AWG, Ring Terminal, #8 Stud, Yellow	5
	10-12 AWG, Ring Terminal, #10 Stud, Yellow	5
	10-12 AWG, Ring Terminal, 1/4" Stud, Yellow	5
	10-12 AWG, Ring Terminal, 3/8" Stud, Yellow	5
Spade Terminals	Description	Qty
	18-20 AWG, Spade Terminal, #10, Red	5
	14-16 AWG, Spade Terminal, #10, Blue	5
	10-12 AWG, Spade Terminal, #10, Yellow	5
Butt Connectors	Description	Qty
	18-22 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	10
	10-12 AWG, Butt Connector, Yellow	10
Insulated Couplers	Description	Qty
	18-20 AWG, Female Coupler, 1/4" Tab, Red	5
	14-16 AWG, Female Coupler, 1/4" Tab, Blue	5
	18-20 AWG, Male Coupler, 1/4" Tab, Red	5
	14-16 AWG, Male Coupler, 1/4" Tab, Blue	5

**20 items and 115 pieces**



Crimp barrel inside



1. Strip wires 1/4" and insert into crimp barrel of connector. 2. Crimp the wires in crimp barrel. 3. Apply heat until tubing recovers and adhesive melts and flows.

## 10723 - Proseal Connector Kit with Tool Slot

## 10719 - Proseal Connector Kit with UT-100Si & Crimper

Ring Terminals	Description	Qty
	18-20 AWG, Ring Terminal, Red, #10	5
	14-16 AWG, Ring Terminal, Blue, #8	5
	14-16 AWG, Ring Terminal, Blue, #10	5
	14-16 AWG, Ring Terminal, Blue, 1/4" Stud	5
	14-16 AWG, Ring Terminal, Blue, 3/8" Stud	5
	10-12 AWG, Ring Terminal, Yellow, #10 Stud	5
	10-12 AWG, Ring Terminal, Yellow, 3/8" Stud	5
Butt Connectors	Description	Qty
	18-20 AWG, Butt Connector, Red	10
	14-16 AWG, Butt Connector, Blue	10
	10-12 AWG, Butt Connector, Yellow	10
Insulated Couplers	Description	Qty
	14-16 AWG, Slip-On Connector, Blue, .250 Female	5
	14-16 AWG, Slip-On Connector, Blue, .250 Male	5

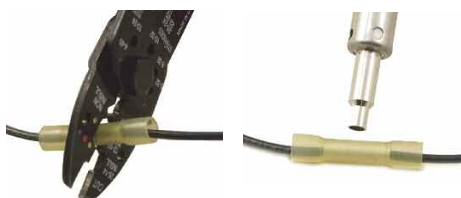
**12 items and 75 pieces**

## Crimp

Mechanical reliability • Holds wires in place

## Seal

Durable insulation • Watertight connection



Temperature rating:	-67°F to 230°F -55°C to 110°C
Longitudinal change:	+1, -10%
Recovery temperature:	275°F/135°C
Dialectic strength:	900 Volts/Mil.
UL Voltage Rating:	600 Volts
Water absorption:	<0.1%
Corrosion resistance:	Non-corrosive
Fungus Resistance:	Non-nutrient
Water absorption:	<0.1%

# Heat-Shrink Tubing Kits

High quality heat-shrink tubing

## Dual wall flexible heat-shrink tubing with adhesive lining

- Polyolefin, 3 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)
- Internal layer of thermo-plastic adhesive provides a barrier against contaminants

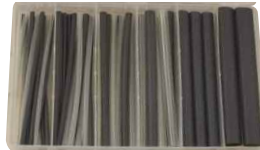
**NEW!**

## Thin wall flexible heat-shrink tubing with no adhesive

- Polyolefin, 2 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)



10063



10065



10064



10061



10062

### 10063 Flexible Adhesive-Lined Shrink Tubing Minipak

Flexible Shrink Tubing	Description	Qty
	1/8" pre-shrink I.D., 6" length, Black	5
	1/4" pre-shrink I.D., 6" length, Black	5
	3/8" pre-shrink I.D., 6" length, Black	5
	1/2" pre-shrink I.D., 6" length, Black	4
	3/4" pre-shrink I.D., 6" length, Black	3
	1" pre-shrink I.D., 6" length, Black	2

**6 items and 24 pieces**

### 10064 Flexible Adhesive-Lined Shrink Tubing Kit

Flexible Shrink Tubing	Description	Qty
	1/8" pre-shrink I.D., 6" length, Black	5
	1/8" pre-shrink I.D., 6" length, Clear	3
	3/16" pre-shrink I.D., 6" length, Red	3
	3/16" pre-shrink I.D., 6" length, Black	5
	3/16" pre-shrink I.D., 6" length, Clear	2
	3/16" pre-shrink I.D., 6" length, Red	2
	1/4" pre-shrink I.D., 6" length, Black	5
	1/4" pre-shrink I.D., 6" length, Clear	2
	1/4" pre-shrink I.D., 6" length, Red	2
	3/8" pre-shrink I.D., 6" length, Black	5
	3/8" pre-shrink I.D., 6" length, Clear	2
	3/8" pre-shrink I.D., 6" length, Red	2
	1/2" pre-shrink I.D., 6" length, Black	3
	1/2" pre-shrink I.D., 6" length, Clear	2
	1/2" pre-shrink I.D., 6" length, Red	2
	3/4" pre-shrink I.D., 6" length, Black	1
	3/4" pre-shrink I.D., 6" length, Clear	1
	3/4" pre-shrink I.D., 6" length, Red	1

**18 items and 48 pieces**

### 10065 Flexible Adhesive-Lined Shrink Tubing Kit

Flexible Shrink Tubing	Description	Qty
	1/8" pre-shrink I.D., 6" length, Black	10
	1/8" pre-shrink I.D., 6" length, Clear	10
	3/16" pre-shrink I.D., 6" length, Black	8
	3/16" pre-shrink I.D., 6" length, Clear	8
	1/4" pre-shrink I.D., 6" length, Black	6
	1/4" pre-shrink I.D., 6" length, Clear	6
	3/8" pre-shrink I.D., 6" length, Black	4
	3/8" pre-shrink I.D., 6" length, Clear	4
	1/2" pre-shrink I.D., 6" length, Black	3
	1/2" pre-shrink I.D., 6" length, Clear	3
	3/4" pre-shrink I.D., 6" length, Black	2
	3/4" pre-shrink I.D., 6" length, Clear	2

**12 items and 66 pieces**

MIL-DTL-23053/4 Class 3  
 UL E157227  
 Recovery temp. 250°F/121°C,  
 Dielectric strength 700V/Mil.,  
 Continuous oper. temp. -67°F to 230°F/-55°C to 110°C

### 10061 Thin Wall Flexible Shrink Tubing Minipak

Flexible Shrink Tubing	Description	Qty
	3/16" pre-shrink I.D., 6" length, Black	5
	3/16" pre-shrink I.D., 6" length, Red	5
	1/4" pre-shrink I.D., 6" length, Black	5
	1/4" pre-shrink I.D., 6" length, Blue	5
	3/8" pre-shrink I.D., 6" length, Black	5
	3/8" pre-shrink I.D., 6" length, Yellow	5
	1/2" pre-shrink I.D., 6" length, Black	4
	3/4" pre-shrink I.D., 6" length, Black	3
	1" pre-shrink I.D., 6" length, Black	2

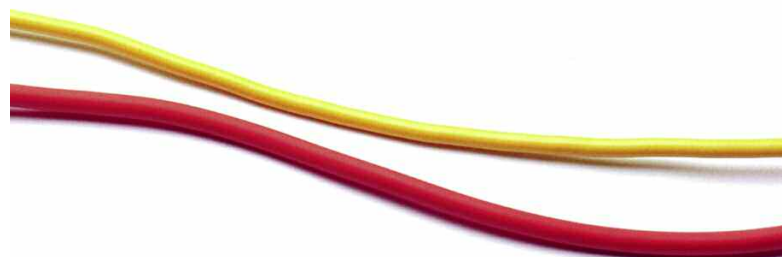
**9 items and 39 pieces**

### 10062 Thin Wall Flexible Shrink Tubing Kit

Flexible Shrink Tubing	Description	Qty
	3/16" pre-shrink I.D., 6" length, Black	20
	3/16" pre-shrink I.D., 6" length, Red	15
	1/4" pre-shrink I.D., 6" length, Black	20
	1/4" pre-shrink I.D., 6" length, Blue	10
	3/8" pre-shrink I.D., 6" length, Black	10
	3/8" pre-shrink I.D., 6" length, Yellow	10
	1/2" pre-shrink I.D., 6" length, Black	10
	3/4" pre-shrink I.D., 6" length, Black	5
	1" pre-shrink I.D., 6" length, Black	3

**9 items and 103 pieces**

MIL-DTL-23053/5 Class 1 (colors) Class 2 (clear),  
 UL E35506 (except clear), CSA LR31929 (except clear),  
 Recovery temperature: 250°F/121°C, Dielectric strength: 900 Volts/Mil.,  
 Continuous operating temperature: -67°F to 275°F/-55°C to 135°C

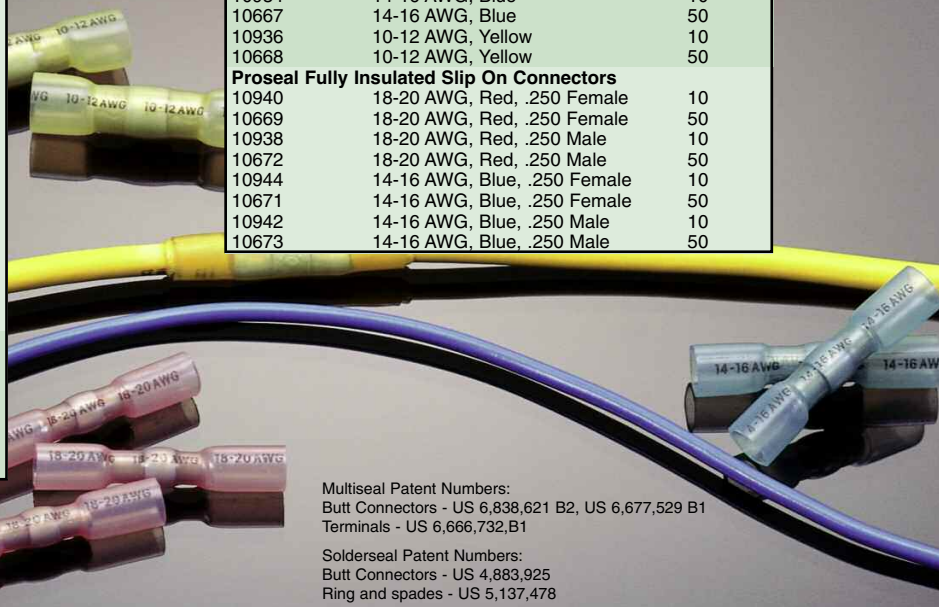


# Electrical Connector Kit Refills

Multiseal™, Solderseal™ & Proseal™ heat-seal electrical connectors

Part Number	Description	Std.Pack
<b>Multiseal Ring Terminals</b>		
11516	18-20 AWG, Red, #6 Stud	10
11573	18-20 AWG, Red, #6 Stud	50
11525	18-20 AWG, Red, #10 Stud	10
11576	18-20 AWG, Red, #10 Stud	50
11518	14-16 AWG, Blue, #10 Stud	10
11568	14-16 AWG, Blue, #10 Stud	50
11519	14-16 AWG, Blue, 1/4" Stud	10
11574	14-16 AWG, Blue, 1/4" Stud	50
11520	14-16 AWG, Blue, 3/8" Stud	10
11581	14-16 AWG, Blue, 3/8" Stud	50
11521	10-12 AWG, Yellow, #10 Stud	10
11569	10-12 AWG, Yellow, #10 Stud	50
11523	10-12 AWG, Yellow, 1/4" Stud	10
11582	10-12 AWG, Yellow, 1/4" Stud	50
11524	10-12 AWG, Yellow, 3/8" Stud	10
11570	10-12 AWG, Yellow, 3/8" Stud	50
11522	10-12 AWG, Yellow, 1/2" Stud	10
11575	10-12 AWG, Yellow, 1/2" Stud	50
<b>Multiseal Spade Terminals</b>		
11517	18-20 AWG, Red, #10 Stud	10
11580	18-20 AWG, Red, #10 Stud	50
11526	14-16 AWG, Blue, #10 Stud	10
11583	14-16 AWG, Blue, #10 Stud	50
11527	10-12 AWG, Yellow, #10 Stud	10
11571	10-12 AWG, Yellow, #10 Stud	50
<b>Multiseal Butt Connectors</b>		
11512	22-24 AWG, Clear Butt	10
11566	22-24 AWG, Clear Butt	50
11513	18-20 AWG, Red Butt	10
11572	18-20 AWG, Red Butt	50
11514	14-16 AWG, Blue Butt	10
11579	14-16 AWG, Blue Butt	50
11515	10-12 AWG, Yellow Butt	10
11567	10-12 AWG, Yellow Butt	50
<b>Multiseal Female Slip-On Terminals</b>		
11528	18-20 AWG, Red	10
11577	18-20 AWG, Red	50
11530	14-16 AWG, Blue	10
11584	14-16 AWG, Blue	50
<b>Multiseal Male Slip-On Terminals</b>		
11529	18-20 AWG, Red	10
11578	18-20 AWG, Red	50
11531	14-16 AWG, Blue	10
11585	14-16 AWG, Blue	50
<b>Solderseal Ring Terminals</b>		
10772	18-20 AWG, Red, # 6 Stud	10
10811	18-20 AWG, Red, # 6 Stud	50
10773	18-20 AWG, Red, # 8 Stud	10
10812	18-20 AWG, Red, # 8 Stud	50
10774	18-20 AWG, Red, # 10 Stud	10
10813	18-20 AWG, Red, # 10 Stud	50
10775	18-20 AWG, Red, 1/4" Stud	10
10814	18-20 AWG, Red, 1/4" Stud	50
10779	14-16 AWG, Blue, # 8 Stud	10
10818	14-16 AWG, Blue, # 8 Stud	50
10780	14-16 AWG, Blue, # 10 Stud	10
10819	14-16 AWG, Blue, # 10 Stud	50
10781	14-16 AWG, Blue, 1/4" Stud	10
10820	14-16 AWG, Blue, 1/4" Stud	50
10783	14-16 AWG, Blue, 3/8" Stud	10
10822	14-16 AWG, Blue, 3/8" Stud	50
10784	10-12 AWG, Yellow, # 10 Stud	10
10823	10-12 AWG, Yellow, # 10 Stud	50
10785	10-12 AWG, Yellow, 1/4" Stud	10
10824	10-12 AWG, Yellow, 1/4" Stud	50
10787	10-12 AWG, Yellow, 3/8" Stud	10
10826	10-12 AWG, Yellow, 3/8" Stud	50
10788	10-12 AWG, Yellow, 1/2" Stud	10
10827	10-12 AWG, Yellow, 1/2" Stud	50
<b>Solderseal Spade Terminals</b>		
10792	18-20 AWG, Red, # 10 Stud	10
10831	18-20 AWG, Red, # 10 Stud	50
10793	14-16 AWG, Blue, # 10 Stud	10
10832	14-16 AWG, Blue, # 10 Stud	50
10794	10-12 AWG, Yellow, # 10 Stud	10
10833	10-12 AWG, Yellow, # 10 Stud	50

<b>Solderseal Butt Connectors</b>		
10795	22-24 AWG, Clear	10
10834	22-24 AWG, Clear	50
10796	18-20 AWG, Red	10
10835	18-20 AWG, Red	50
10797	14-16 AWG, Blue	10
10836	14-16 AWG, Blue	50
10798	10-12 AWG, Yellow	10
10837	10-12 AWG, Yellow	50
<b>Part Number</b>	<b>Description</b>	<b>Std.Pack</b>
<b>Solderseal Slip-On Connectors</b>		
10799	18-20 AWG, Red, .250 Female	10
10838	18-20 AWG, Red, .250 Female	50
10801	18-20 AWG, Red, .250 Male	10
10840	18-20 AWG, Red, .250 Male	50
10802	14-16 AWG, Blue, .250 Female	10
10841	14-16 AWG, Blue, .250 Female	50
10804	14-16 AWG, Blue, .250 Male	10
10843	14-16 AWG, Blue, .250 Male	50
10805	10-12 AWG, Yellow, .250 Female	10
10844	10-12 AWG, Yellow, .250 Female	50
10807	10-12 AWG, Yellow, .250 Male	10
10846	10-12 AWG, Yellow, .250 Male	50
<b>Proseal Ring Terminals</b>		
10906	18-20 AWG, Red, # 6 Stud	10
10658	18-20 AWG, Red, # 6 Stud	50
10908	18-20 AWG, Red, # 10 Stud	10
10659	18-20 AWG, Red, # 10 Stud	50
10910	14-16 AWG, Blue, # 8 Stud	10
10648	14-16 AWG, Blue, # 8 Stud	50
10912	14-16 AWG, Blue, # 10 Stud	10
10649	14-16 AWG, Blue, # 10 Stud	50
10914	14-16 AWG, Blue, 1/4" Stud	10
10650	14-16 AWG, Blue, 1/4" Stud	50
10916	14-16 AWG, Blue, 3/8" Stud	10
10652	14-16 AWG, Blue, 3/8" Stud	50
10918	10-12 AWG, Yellow, # 8 Stud	10
10653	10-12 AWG, Yellow, # 8 Stud	50
10920	10-12 AWG, Yellow, # 10 Stud	10
10654	10-12 AWG, Yellow, # 10 Stud	50
10922	10-12 AWG, Yellow, 1/4" Stud	10
10655	10-12 AWG, Yellow, 1/4" Stud	50
10924	10-12 AWG, Yellow, 3/8" Stud	10
10657	10-12 AWG, Yellow, 3/8" Stud	50
<b>Proseal Spade Terminals</b>		
10926	18-20 AWG, Red, # 10 Stud	10
10665	18-20 AWG, Red, # 10 Stud	50
10928	14-16 AWG, Blue, # 10 Stud	10
10663	14-16 AWG, Blue, # 10 Stud	50
10930	10-12 AWG, Yellow, # 10 Stud	10
10664	10-12 AWG, Yellow, # 10 Stud	50
<b>Proseal Butt Connectors</b>		
10932	18-20 AWG, Red	10
10666	18-20 AWG, Red	50
10934	14-16 AWG, Blue	10
10667	14-16 AWG, Blue	50
10936	10-12 AWG, Yellow	10
10668	10-12 AWG, Yellow	50
<b>Proseal Fully Insulated Slip-On Connectors</b>		
10940	18-20 AWG, Red, .250 Female	10
10669	18-20 AWG, Red, .250 Female	50
10938	18-20 AWG, Red, .250 Male	10
10672	18-20 AWG, Red, .250 Male	50
10944	14-16 AWG, Blue, .250 Female	10
10671	14-16 AWG, Blue, .250 Female	50
10942	14-16 AWG, Blue, .250 Male	10
10673	14-16 AWG, Blue, .250 Male	50



Multiseal Patent Numbers:  
Butt Connectors - US 6,838,621 B2, US 6,677,529 B1  
Terminals - US 6,666,732, B1

Solderseal Patent Numbers:  
Butt Connectors - US 4,883,925  
Ring and spades - US 5,137,478



# Heat-Shrink Tubing Kit Refills

Thin and dual wall shrink tubing



Master Heat® Guns or Butane-powered portable heat tools, when used with these flexible polyolefin connectors and shrink tubing, create wireharness repairs that meet OEM Standards.

Thin Wall Shrink Tubing 6" Long (NO ADHESIVE)		
11601	Shrink Tubing, 3/16", Black	10
11602	Shrink Tubing, 3/16", Red	10
11603	Shrink Tubing, 1/4", Black	10
11604	Shrink Tubing, 1/4", Blue	10
11605	Shrink Tubing, 3/8", Black	10
11606	Shrink Tubing, 3/8", Yellow	10
11607	Shrink Tubing, 1/2", Black	10
11608	Shrink Tubing, 3/4", Black	10
11609	Shrink Tubing, 1", Black	10
Dual Wall Shrink Tubing 6" Long (WITH ADHESIVE)		
11620	Shrink Tubing, 1/8", Black	8
11621	Shrink Tubing, 1/8", Clear	8
11622	Shrink Tubing, 1/8", Red	8
11623	Shrink Tubing, 3/16", Black	8
11624	Shrink Tubing, 3/16", Clear	8
11625	Shrink Tubing, 3/16", Red	8
11626	Shrink Tubing, 1/4", Black	8
11627	Shrink Tubing, 1/4", Clear	8
11628	Shrink Tubing, 1/4", Red	8
11629	Shrink Tubing, 3/8", Black	8
11630	Shrink Tubing, 3/8", Clear	8
11631	Shrink Tubing, 3/8", Red	8
11632	Shrink Tubing, 1/2", Black	8
11633	Shrink Tubing, 1/2", Clear	8
11634	Shrink Tubing, 1/2", Red	8
11635	Shrink Tubing, 3/4", Black	8
11636	Shrink Tubing, 3/4", Clear	8
11637	Shrink Tubing, 3/4", Red	8
11638	Shrink Tubing, 1", Black	8
11639	Shrink Tubing, 1", Clear	8
11640	Shrink Tubing, 1", Red	8

## Crimping Tools

Hand tools for heat-seal electrical connectors

### Cutter, Stripper, Crimper

- Two precision-ground wire cutters: up-front anvil-type and scissors-type located behind pivot point
- Cuts, strips and crimps stranded wire in 22 to 10 AWG sizes and solid wire in 18 to 8 AWG sizes
- Cuts 6-32, 8-32, 10-32, 10-24 and 4-40 bolts and screws
- Scissors action wire stripper is precision-ground for accuracy and clean, neat stripping.
- Cushioned handle for user comfort, made of heat-treated tool steel for long life, reliability and accuracy



35083

MODEL NO.	DESCRIPTION
35083	Cutter, Stripper, Crimper

### Ratcheting Crimper

- Crimps 22-18, 16-14 and 12-10 AWG size connectors
- Rounded crimp die area for insulated terminals
- Industry standard color-coded crimp numbers for easy size identification
- Full-cycle ratcheting handle ensures a complete crimp
- Made from heat-treated steel for long life and reliability
- Cushioned handle for user comfort



35084

MODEL NO.	DESCRIPTION
35084	Crimp Tool, Ratcheting, Full Cycle

NOTE: Users should independently evaluate the suitability of the product for their application.

# Master Heat™ Tool Technology

Quality, precise, reliable heat tools perform a variety of tasks

## Convection Heat/Hot Air

Most Master heat tools use the convection principle to provide hot air for many different applications and processes.

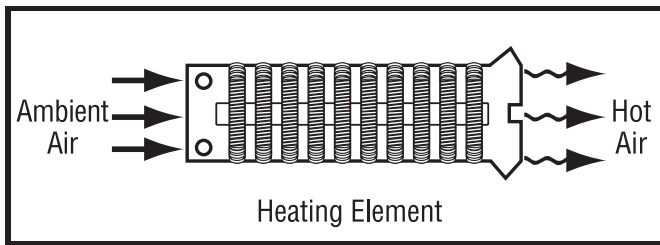
Hot air is particularly well suited for use in a wide variety of applications and processes throughout industry.

The appropriate Master heat tool is selected depending on the air flow and temperature characteristics needed to do the job. Temperature is controlled by selecting a proper model or by using one of our variable temperature units. Air flow is determined by the unit selected, its outlet configuration and by the use of specially designed attachments if required.

## How Master Heat Tools Work

Air is forced through (or over) an electric heating element. In the process, heat energy is transferred from the heating element to the air.

Most Master heat tools use a self-contained motor-driven fan to supply the air which is then passed over an electric heating element.



Temperature Conversion Formulas  
 $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$     $^{\circ}\text{F} = 9/5 (^{\circ}\text{C} + 32)$

## Facts About Heat

**Applied heat technology** is the basis of all Master Appliance products. Definitions of some of the basic principles of heat follow:

**Heat** is the form of kinetic energy which causes a rise in temperature in a body as it is absorbed or a reduction in temperature as it is lost to the environment.

**Temperature differential** is the driving force of heat energy. The greater the temperature differential between two objects, the greater the flow of heat energy from the higher-temperature object to the cooler object.

**BTU's** (British Thermal Units) or calories are the units used to measure heat energy. One BTU is equivalent to 252 calories.

**Thermal conductivity** is the property of a material related to its ability to transfer heat through itself. The higher the thermal conductivity of a material, the greater the heat transfer rate. In general, metals have higher thermal conductivities than insulators. Copper and aluminum have higher thermal conductivities than steel, while steel has a higher thermal conductivity than wood or plastics.

**The heat transfer rate** is the quantity of heat energy flowing per unit of time through an object. It can be measured in BTU's per minute or by calories per second flowing through a specified area of the object.

## COMMON MODES OF HEAT TRANSFER

- **Convection** – employing a heated fluid such as air to convey heat from the source to the object being heated. Master Heat guns are an example of applied convection.
- **Conduction** – heat transfer within an object. Ultratorches, in the soldering mode, are an example of applied conduction.
- **Radiation** – heat transfer employing electromagnetic waves similar to light or radio waves. This method does not require the presence of solids, liquids or gases to transmit heat energy. The sun is the best example of radiant heat.

FAHRENHEIT TO CENTIGRADE CONVERSION TABLE											
°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
-58°	-50°	167°	75°	392°	200°	617°	325°	842°	450°	1067°	575°
-49°	-45°	176°	80°	401°	205°	626°	330°	851°	455°	1076°	580°
-40°	-40°	185°	85°	410°	210°	635°	335°	860°	460°	1085°	585°
-31°	-35°	194°	90°	419°	215°	644°	340°	869°	465°	1094°	590°
-22°	-30°	203°	95°	428°	220°	653°	345°	878°	470°	1103°	595°
-13°	-25°	212°	100°	437°	225°	662°	350°	887°	475°	1112°	600°
-4°	-20°	221°	105°	446°	230°	671°	355°	896°	480°	1121°	605°
-5°	-15°	230°	110°	455°	235°	680°	360°	905°	485°	1130°	610°
14°	-10°	239°	115°	454°	240°	689°	365°	914°	490°	1139°	615°
23°	-5°	248°	120°	473°	245°	698°	370°	923°	495°	1148°	620°
32°	0°	257°	125°	482°	250°	707°	375°	932°	500°	1157°	625°
41°	5°	266°	130°	491°	255°	716°	380°	941°	505°	1165°	630°
50°	10°	275°	135°	500°	260°	725°	385°	950°	510°	1175°	635°
59°	15°	284°	140°	509°	265°	734°	390°	959°	515°	1184°	640°
68°	20°	293°	145°	518°	270°	743°	395°	968°	520°	1193°	645°
77°	25°	302°	150°	527°	275°	752°	400°	977°	525°	1202°	650°
86°	30°	311°	155°	536°	280°	761°	405°	986°	530°	1211°	655°
95°	35°	320°	160°	545°	285°	770°	410°	995°	535°	1220°	660°
104°	40°	329°	165°	554°	290°	779°	415°	1004°	540°	1229°	665°
113°	45°	338°	170°	563°	295°	788°	420°	1013°	545°	1238°	670°
122°	50°	347°	175°	572°	300°	797°	425°	1022°	550°	1247°	675°
131°	55°	356°	180°	581°	305°	806°	430°	1031°	555°	1256°	680°
140°	60°	365°	185°	590°	310°	815°	435°	1040°	560°	1265°	685°
149°	65°	374°	190°	599°	315°	824°	440°	1049°	565°	1274°	690°
158°	70°	383°	195°	608°	320°	833°	445°	1058°	570°	1283°	695°
1167°	630°	1301°	705°	1526°	830°	1671°	905°	1825°	1000°	2000°	1100°
1310°	710°	1635°	895°	1844°	1015°	2115°	1175°	2350°	1300°	2600°	1450°
1319°	715°	1544°	840°	1553°	845°	1562°	850°	1616°	855°	1625°	885°
1328°	720°	1553°	845°	1562°	850°	1616°	855°	1625°	885°	1634°	890°
1337°	725°	1562°	850°	1616°	855°	1625°	885°	1634°	890°	1643°	895°
1346°	730°	1571°	855°	1625°	885°	1634°	890°	1643°	895°	1652°	900°
1355°	735°	1580°	860°	1634°	890°	1643°	895°	1652°	900°	1661°	905°
1364°	740°	1589°	865°	1643°	895°	1652°	900°	1661°	905°	1670°	910°
1373°	745°	1598°	870°	1652°	900°	1661°	905°	1670°	910°	1679°	915°
1382°	750°	1607°	875°	1661°	905°	1670°	910°	1679°	915°	1688°	920°
1391°	755°	1616°	880°	1670°	910°	1679°	915°	1688°	920°	1697°	925°
1400°	760°	1625°	885°	1679°	915°	1688°	920°	1697°	925°	1706°	930°
1409°	765°	1634°	890°	1688°	920°	1697°	925°	1706°	930°	1715°	935°
1418°	770°	1643°	895°	1697°	925°	1706°	930°	1715°	935°	1724°	940°
1427°	775°	1652°	900°	1706°	930°	1715°	935°	1724°	940°	1733°	945°
1436°	780°	1661°	905°	1715°	935°	1724°	940°	1733°	945°	1742°	950°
1445°	785°	1670°	910°	1724°	940°	1733°	945°	1742°	950°	1751°	955°
1454°	790°	1679°	915°	1733°	945°	1742°	950°	1751°	955°	1760°	960°
1463°	795°	1688°	920°	1742°	950°	1751°	955°	1760°	960°	1769°	965°
1472°	800°	1697°	925°	1751°	955°	1760°	960°	1769°	965°	1778°	970°
1481°	805°	1706°	930°	1760°	960°	1769°	965°	1778°	970°	1787°	975°
1490°	810°	1715°	935°	1769°	965°	1778°	970°	1787°	975°	1796°	980°
1499°	815°	1724°	940°	1778°	970°	1787°	975°	1796°	980°	1805°	985°
1508°	820°	1733°	945°	1787°	975°	1796°	980°	1805°	985°	1814°	990°

TABLE OF VALUES FOR INTERPOLATION IN ABOVE					
1°C = 1.8°F	4°C = 7.2°F	7°C = 12.6°F	1°F = 0.55°C	4°F = 2.22°C	7°F = 3.88°C
2°C = 3.6°F	5°C = 9.0°F	8°C = 14.4°F	2°F = 1.11°C	5°F = 2.77°C	8°F = 4.44°C
3°C = 5.4°F	6°C = 10.8°F	9°C = 16.2°F	3°F = 1.66°C	6°F = 3.33°C	9°F = 5.00°C

# Master Heat™ Tool Applications

## Professional quality heat tools for Industry

### Master Heat™ Tools

Heat has many industrial applications. The proper use of the right heat technology and the right product are necessary to achieve optimum results in each application.

Master is continually developing new products and techniques to meet the demands of new applications. Master heat guns are designed and constructed to provide our customers with dependable, cost-effective ways to apply heat properly for specific jobs.

With over fifty years of experience in the industry, the Master Appliance name assures its customers of an uncommon expertise in heat technology, quality products and unsurpassed service.

Our original heat gun met the heating needs of the maintenance, repair, operation and production applications of its time. Today's Master heat tools are designed with expanded capabilities which make it easy to work with the growing range of new materials and processes being developed by industry.

Master heat tools are used for drying, heating, welding, shrinking, soldering and de-soldering as well as a variety of other applications. Wherever heat is the need, Master has the answer.

Because each application is unique, the Master heat tool line offers options such as varying temperatures, air flow, a choice of nozzle configurations, attachments and voltage/plug combinations to meet your needs.

The introduction of new plastics, adhesives and other materials is a continuous process. The range of options and attachments offered by Master heat tools enables you to use the newest materials and techniques while relying on the traditional Master quality and durability.

Master is always here to help. When you're considering a new application, material or process, call Master Appliance for professional, efficient and courteous assistance.

### Applications/Processes

Master heat tools are being used for hundreds of applications and processes throughout industry including:

- Activate adhesives and potting compounds
- Bend and form plastics and plastic laminates
- Cure and set adhesives
- Defrost freezers and frozen coils
- Dry body filler
- Dry conformal coatings on circuit boards
- Dry parts
- Expand metals
- General heating and drying applications
- Desolder backs of printed circuit boards to thru-hole components
- PVC bending
- Preheat flux
- Remove dents in fiberglass and other materials
- Remove pin striping
- Remove/install plastic autobody panels
- Remove windshield caulking
- Shrink and terminate environmental splices
- Shrink and terminate heat-shrinkable insulated solder preforms
- Shrink heat-shrinkable anti-static film
- Shrink heat-shrinkable molded parts
- Shrink heavy gauge shrink packaging
- Shrink heavy wall and adhesive-lined tubings
- Smooth vinyl tops
- Soldering and desoldering
- Spot dry paint
- Stretch vinyls
- Strip paint
- Vinyl repair

New applications and processes which require heat are discovered everyday. Users should independently evaluate the suitability of the product for their application.

As with all electrical and butane-powered tools, for your safety, read the instruction manual before using.



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Designers and Manufacturers of Heat Tools for Industry